September 2, 2015

Ms. Kim Tisa USEPA Region 1 - New England 5 Post Office Square Mail Code: OSRR07-2 Boston, MA 02109-3912



Subject: Revision 3 - Area of Concern 906 PCB Investigation Report and Remedial Action Plan, Allnex Wallingford Facility, Wallingford, Connecticut (USEPA ID # CTD001173467)

Dear Ms. Tisa:

On behalf of Allnex USA Inc. (Allnex - formerly CYTEC Industries Inc.), Amec Foster Wheeler submits this revised investigation report and remedial action plan in support of PCB remediation at the Allnex Facility in Wallingford, Connecticut. PCBs have been detected at concentrations exceeding 50 mg/kg in soil and concrete adjacent to a former transformer substation identified as Area of Concern (AOC) 906. This report and remedial action plan is modified from Revision 2, submitted to USEPA in February 2015.

This revised plan addresses USEPA comments dated May 7<sup>th</sup> 2014, August 19<sup>th</sup> 2015, and August 21<sup>st</sup> 2015 (each via email) for the subject work plan, and includes additional data that could only be collected in September 2014 during a scheduled power outage at the facility. The plan has been revised with an alternative remedial approach based on findings from the 2014 sampling event. The plan cites the need to implement an environmental land use restriction (ELUR) due to the fact that PCBs will remain in concrete above cleanup levels. An ELUR and Engineered Control Variance approval from the CTDEEP may also be needed to address soil that may remain above soil clean up levels.

Please do not hesitate to contact me with questions or comments as we seek approval to implement this plan.

Sincerely,

Amec Foster Wheeler, Environment & Infrastructure, Inc.

Nelson M. Breton, L.E.P. Project Manager

Encl.

cc: Baffour Kyei, CTDEEP, Gary Trombly, CTDEEP, Bart DeRidder, Allnex, Virginia Ryan, Allnex, Carl Dahlman, Allnex, Mike Cote, Amec Foster Wheeler

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# AOC 906 (FORMER SUBSTATION F) PCB INVESTIGATION REPORT AND REMEDIAL ACTION PLAN

#### **Revision 3**

Originally Submitted 11/7/2012 Revision 1 submitted 1/23/2014 Revision 2 submitted 2/25/2015

## ALLNEX INDUSTRIAL FACILITY WALLINGFORD, CONNECTICUT

#### Prepared for:

#### Allnex USA Inc.

South Cherry Street Wallingford, CT 06492



#### Amec Foster Wheeler Environment & Infrastructure, Inc.

511 Congress Street Portland, Maine 04101

September 2015

**Project Number: 3616086024** 

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#### LIST OF ACRONYMS AND ABBREVIATIONS

Amec Foster Wheeler Amec Foster Wheeler Environment & Infrastructure, Inc.

AOC Area of Concern Allnex Allnex USA Inc.

CFR Code of Federal Regulations

CTDEEP Connecticut Department of Energy and Environmental Protection

Cytec Cytec Industries Inc.

ELUR environmental land use restriction ESA Environmental Site Assessment

ETPH extractable total petroleum hydrocarbons

FDR Field Data Record

MACTEC Engineering and Consulting, Inc.

mg/Kg Milligrams Per Kilogram

PCB polychlorinated biphenyl

ppm parts per million

RCP Reasonable Confidence Protocols RSR Remediation Standard Regulation

Site 528 South Cherry Street, Wallingford, Connecticut

sq ft square feet

USEPA United States Environmental Protection Agency

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#### 1.0 INTRODUCTION

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) has prepared this investigation report and remedial action plan at the request of Allnex USA Inc. (Allnex) (formerly Cytec Industries Inc.) in support of polychlorinated biphenyl (PCB) remediation. PCBs have been detected in soil and concrete samples at a former transformer substation identified as an Area of Concern (AOC) at the Allnex Industrial Facility (Site) located at 528 South Cherry Street, Wallingford, Connecticut (Figure 1).

As part of a phased site investigation at the facility under the Connecticut Property Transfer Act, one of a number of AOCs targeted for investigation is a former transformer substation identified as AOC 906 – also referred to as Former Substation F, where a transformer rinsate release occurred in 1988. Adjacent to the former substation is a newer non-PCB substation transformer (also designated as Substation F) which is the active substation at this location and has its own foundation along with numerous active underground utilities, including high voltage conduits.

There is some documentation showing soil was removed and that confirmatory soil samples were collected following cleanup at the time that the 1988 release occurred. However, a records review during the Phase I Environmental Site Assessment (ESA) (MACTEC Engineering and Consulting, Inc. [MACTEC], 2009a) indicated that soils with PCB concentrations in excess of Connecticut commercial/industrial direct exposure criteria (10 milligrams per kilogram [mg/Kg]) remained in one area.

During 2011 investigations at AOC 906, designed to evaluate current conditions at this AOC, PCBs were detected in two surface soil samples located adjacent to and in close proximity to the former substation pad at concentrations up to 100 mg/Kg. Subsequent to this finding, Allnex secured the area around the substation with fencing and signage to restrict access, and placed stone in graveled areas where PCBs were detected to prevent direct contact to workers who may need to access the restricted area.

Amec Foster Wheeler conducted supplemental sampling of soil and concrete in 2012 and in August 2013 to further characterize the distribution of PCBs in areas adjacent to substation F (AOC 906), as well as below ground within two cable pits inside the structure. These investigations served to help define the distribution of PCBs in soil and concrete in areas adjacent to and surrounding the structure, and indicated further sampling was needed to understand the extent of impact to soils and concrete inside the structure.

In September 2014, Amec Foster Wheeler performed additional sampling of soil and concrete inside the concrete structure to characterize the distribution of PCBs within the accessible portions of the former substation.

Investigation results from 2011 to 2013 show higher concentration PCBs (greater than 10 mg/Kg) in soils outside of the substation structure to be limited to an area of approximately 780 square feet (sq ft), while results from the 2013 and 2014 sampling events within the structure show

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elevated PCBs levels in each accessible portion of the structure, with an estimated area of approximately 45 sq ft.

For the remedial approach described in this plan, Allnex is proposing a Risk-Based Removal under 40 Code of Federal Regulations (CFR) 761.61(c) - with the following measures 1) excavation and offsite disposal of impacted soils having PCBs > 10 mg/Kg, 2) removal of concrete pad having PCBs > 25 mg/Kg, 3) cleaning and epoxy coating of the concrete vault sidewalls where PCBs are > 25 mg/Kg and, 4) restoration of the impacted area. It is Allnex's intent to initiate this remedial measure in September 2015. Findings from investigations performed are presented in Section 2. The remedial action plan is presented in Section 3.



#### 2.0 SITE BACKGROUND AND HISTORY

#### 2.1 Background

The original transformer Substation F (AOC 906) reportedly once contained PCB oil at concentrations greater than 50 part per million (ppm); in 1996, the original unit contained oil with PCB concentrations ranging from 49 ppm to 79 ppm. Substation F was replaced in 1997 with a non-PCB oil substation containing 415 gallons of <2 ppm PCB oil. This substation is located on a concrete pad adjacent to the former substation location. The location of the substations is shown on Figure 2.

The former substation was located on a concrete pad. The pad structure itself is a massive, cast-in-place unit constructed with compartmented cable vaults and pits ranging from approximately 4 to 6 feet in depth below grade, which contain high voltage electrical conduits. In 1997, some of the electrical conduit that once served the former substation was rerouted below grade and shifted laterally a short distance to the current Substation F, located immediately to the east. As shown on Figure 2, sub-grade compartments in the central and northern part of the former pad are accessible for maintenance and each do not have a structural bottom. Sandy soils are present at the bottom of both compartments. The compartment at the south end of the pad is not accessible and is closed off by concrete walls on all four sides.

#### 2.2 Previous Remedial Activities

Facility records indicate a transformer rinsate release occurred at AOC 906 in 1988. Approximately 10 cubic yards of contaminated soil containing PCBs were excavated and disposed off-site. Following excavation, soil samples were collected to determine residual PCB concentrations (Aroclor-1260) in the remaining excavation. Laboratory results showed that soils with PCBs at a concentration of 16 mg/Kg in one sample (BG S18), in excess of current Connecticut Commercial/Industrial Direct Exposure Criteria, remained in one area to the south of the former transformer pad. The approximate location of BG S18 is shown on Figure 3. Post excavation analytical results from 1988 are provided in Appendix A.

#### 2.3 2010 Phase II Site Investigation

Based on review of facility records and historical information collected during the 2009 Phase I ESA (MACTEC, 2009a), Amec Foster Wheeler (then MACTEC) conducted a visual assessment at substation F to evaluate the condition of the ground surface around the substation and any surfaces beneath valves and bushings. Staining, potentially associated with PCB oil releases was observed in areas on the former transformer pad, indicating additional evaluation was necessary at AOC 906.

#### 2.4 Summer 2011 Field Sampling

Following the 2010 inspection, six surface soil samples (SS-109 to SS-114) were collected in areas surrounding the substation pad and submitted for PCB and extractable total petroleum

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hydrocarbon (ETPH) analysis. Three wipe samples were also collected following United States Environmental Protection Agency (USEPA) recommended practices under PCB spill cleanup policy. One of the samples was collected where surface staining was observed on the concrete pad. Field Data Records (FDRs) are included in Appendix B.

PCBs were detected in each of the six surface soil samples at concentrations ranging from 0.027 mg/Kg to 100 mg/Kg. PCBs detected in two surface soil samples located adjacent to (SS-109) and in close proximity to the former substation pad (SS-113) had concentrations of 100 mg/Kg and 75 mg/Kg, respectively. Subsequent to this finding, Allnex secured the area to restrict access and to prevent direct contact to workers who may need to access the area. Surface soil sample locations with corresponding PCB data are shown on Figures 3 and 4.

PCBs were detected at 0.18 mg/100 cm<sup>2</sup> in wipe sample "Wipe-1" which was taken from a stained area on the surface of the former concrete pad. PCBs were not detected in the other two (Wipe-2 and Wipe-3) wipe samples.

#### 2.5 Summer 2012 Field Sampling

Because the high concentrations of PCBs in surface soils pose a potential exposure threat and one of the wipe samples indicated PCBs are present on the surface of the concrete, additional sampling was completed in July/August 2012 to further delineate the extent of PCBs. Nineteen surface soil samples (SS-171 to SS-190, excluding SS-178) and three concrete chip samples (CC-9, CC-10 and CC-11) were collected. Concrete samples were collected from cores representing the upper ½ to 1 inch of the former substation pad. Samples were submitted to Test America Laboratories Inc. in Shelton Connecticut for analysis of PCBs by USEPA Method 8082. Soil samples were also analyzed for ETPH by Connecticut ETPH Method. FDRs are included in Appendix B.

PCBs were detected in 18 of the 19 surface soil samples collected at concentrations ranging from 0.13 mg/Kg to 50.1 mg/Kg. PCBs were also detected in each of the three concrete chip samples collected from the former concrete pad at concentrations between 46 mg/Kg to 300 mg/Kg. Surface soil and concrete chip sample locations with corresponding PCB data from the 2012 sampling event are shown on Figure 3 and Figure 4, respectively.

#### 2.6 Summer 2013 Field Sampling

Additional sampling was completed in July/August 2013 to further delineate the vertical extent of PCBs in soils (near surface), concrete, and soil material within the concrete vault of the former substation pad. A total of twelve soil and fifteen concrete chip samples were collected. Soil samples were collected from ten soil borings (SB-1115 to SB-1124) and soil grab samples (SD-41 and SD-42) were collected from each of the two cable pits at the north end of the concrete pad. Concrete samples were collected at both new (CC-12 to CC-17) and previously sampled locations (CC-9 to CC-11) to further determine the lateral and vertical extent of PCBs in concrete at AOC 906. FDRs are included in Appendix B.

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PCBs were detected in 8 of the 10 samples collected from the 2013 soil borings at concentrations ranging from 0.17 mg/Kg to 22 mg/Kg. PCBs were also detected in 13 of the 15 concrete chip samples collected from the former concrete pad at concentrations between 0.12 mg/Kg to 150 mg/Kg. Concentrations of PCBs within soil at the base of the cable pits were reported at 19 mg/Kg (SD-41) and 23 mg/Kg (SD-42). Surface soil and concrete chip sample locations with corresponding PCB data from the 2013 sampling event are shown on Figures 3 and 4. The analytical results summary is shown on Table 1.

#### 2.7 Fall 2014 Field Sampling

Additional sampling was completed in September 2014 to characterize the extent of PCBs in soil material and concrete within the former substation pad structure. A total of six soil (2 depth intervals x 3 locations) and eight concrete chip samples were collected. The sampling was completed during a planned power outage, which allowed for access to the interior of the pad structure. Soil samples were collected from three shallow soil borings (SB-1127 to SB-1129) within the accessible cable vault located in the central portion of the substation structure, see Figure 5. Concrete samples were collected at new sampled locations CC-18 to CC-25 within the central cable vault and each of the two cable pits at the north end of the concrete pad to further determine the lateral and vertical extents of PCBs.

PCBs were detected in each of six soil samples collected from the borings inside the cable vault at concentrations ranging from 0.051 mg/Kg to 130 mg/Kg. PCBs were also detected in each of the eight concrete chip samples collected at concentrations between 0.13 mg/Kg to 1.1 mg/Kg. Soil and concrete chip sample locations with corresponding PCB data from the 2014 sampling event are shown on Figure 5. The analytical results summary is shown on Table 1.

#### 2.8 Survey

Sample locations were surveyed by Global Positioning System with field correction or by use of hand measurement tape using reference points, such as the edge of current structures (e.g. concrete slab) that are shown on current survey maps.

#### 2.9 Data Review

Laboratory analytical results were reviewed to evaluate data quality following Connecticut Department of Energy and Environmental Protection (CTDEEP) Recommended Reasonable Confidence Protocols (RCP) (CTDEEP, 2007). Data quality evaluations were completed using quality control limits specified by the CTDEEP RCP and the subcontract laboratories. If data quality issues were identified during the review, results were qualified in the final data set and interpretations on data biases provided.

Data qualifications were completed using the professional judgment of the validation chemist and general procedures specified in Region I EPA-New England Data Validation Functional Guidelines for Evaluating Environmental Analyses (USEPA, 1996). With the exception of a few qualifiers, results were determined to be usable as reported by the laboratory. Analytical results

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for PCBs and ETPH are summarized in Table 1. Data review findings and laboratory analytical reports are provided in Appendix C (Attached CD).

#### 2.10 Conceptual Model

Table 1 is a summary of analytical results for samples collected through September 2014. Aroclor-1260 is the primary PCB isomer reported in each sample (soil, concrete and wipe samples) where PCBs were detected. Aroclor-1254 was also detected in 14 soil samples; Aroclor-1254 was not detected in the concrete or wipe samples. With the exception of one sample (SS-109 – 640 mg/Kg), ETPH concentrations, where analyzed, measured below 500 mg/Kg.

Analytical results indicate that soils with higher concentrations of PCBs (i.e. > 10 mg/Kg) are generally present at shallow depths in a relatively isolated area near or within the former substation pad structure. However, higher PCB concentrations are also present near the current transformer pad. Total PCBs measuring >10 mg/Kg in soils in exterior areas surrounding the current and former substations are limited to an area approximately 780 sq ft in size and 2 to 3 feet in depth. The volume of soil with PCBs greater than 10 mg/Kg is therefore estimated to range from approximately 1600 to 2500 cubic feet.

Concentrations of PCBs > 10 mg/Kg in soil samples within the accessible cable vault of the substation structure were reported in one sample – SB-1127 (0.0'-0.3' – 130 mg/Kg) – However, results from a second deeper sample at this boring location were reported at levels <10 mg/Kg, suggesting that impact is isolated to the upper 1 foot of soil. While total PCBs measuring >10 mg/Kg in soils in the cable vault and cable pits are limited to three of the eight samples collected, the interpreted volume of soil containing PCBs greater than 10 mg/kg is estimated at 2 to 3 cubic yards (45 sq ft x 1.5 feet deep = 2.5 cubic yards).

#### 2.11 Data Gaps

Due to safety concerns expressed during digging and/or boring where underground electrical lines were believed present, analytical data for soil exterior to the former Substation F pad is limited to the upper 2 to 3 feet. However, the vertical extent of PCBs greater than 10 mg/Kg has been delineated in all but two sample locations (SB-1123 and SB-1124 – see Figure 3). Attempts were made to locate underground utilities, as a number of subsurface conduits and lines (electrical [high/low-voltage], steam, and water) are known to be present beneath the sampling areas, but the locations of all of these could not be confirmed and the area could not be safely accessed.



#### 3.0 REMEDIAL ACTION PLAN

This remedial action plan was prepared to support a risk-based removal under 40 CFR 761.61(c) for removal of soils with high concentrations of PCBs in the area of AOC 906, and the encapsulation of PCB impacted porous material (e.g. concrete) at the former substation support structure. Because the remediation area is outside and in an industrialized area, Allnex's objective is to meet low occupancy clean-up levels for porous surfaces (less than or equal to 25 mg/Kg) for the concrete pad under 40 CFR 761.61(a) and the Connecticut I/C Direct Exposure Criteria of 10 mg/Kg for soil.

The approach to meeting the stated objectives will be to complete remediation in combination with recording an environmental land use restriction (ELUR) with the CTDEEP for AOC 906. The purpose of the ELUR will be to limit activity to prevent direct contact with PCBs and to identify remaining contamination for proper disposal when soils are accessible or when the concrete structure containing PCBs is no longer in use. The ELUR will cover the soils beneath the newer substation slab which have not been characterized and are presumed to contain PCBs greater than Connecticut I/C Direct Exposure Criteria of 10 mg/kg and therefore will need to be addressed at some point in the future.

Based on the distribution of PCBs in soil and concrete, the planned approach is as follows:

- Remove soils within the cable pits and the accessible cable vault to the extent practicable
  to prevent direct contact to maintenance workers. Soil having concentrations of PCBs >
  10 mg/kg will be left in place where inaccessible, and concrete having concentrations of
  PCBs > 25 mg/Kg will remain due to structural concerns. 1,2
- Excavate soils containing PCBs above 10 mg/kg to the extent practical in the area surrounding the current and former transformer pads (AOC 906) for disposal. The area is estimated to be approximately 900 sq ft in size, with depths of between 2 and 3 feet below grade, totaling an estimated 60 to 90 cubic yards of soils to be removed, see Figure 6.1.
- Remove the concrete cover where PCBs exceed 25 mg/Kg (this would include the area over an inaccessible vault and accessible vault, but exclude the area where two cable pits with metal covers are located at the north end of the structure where PCBs are < 25 mg/Kg), see Figure 7.
- Clean and coat PCB-contaminated concrete surfaces where PCBs exceed 25 mg/Kg along the east and west sidewalls of the former substation transformer to prevent direct exposure, see Figure 7. (Note: PCBs have been detected extending as deep as 1 to 2 inches into the surface of the concrete side walls, and attempts at removing this amount of concrete may compromise structural integrity or risk damage to conduits inside the structure during the process of removal)Complete post-excavation confirmation sampling within and adjacent to the excavated area.
- Conduct post-remediation groundwater monitoring consistent with the CTDEEP Remediation Standard Regulations (RSRs).
- File deed notice as required under 40 CFR 761.61(a) and (c) and in accordance with CTDEEP ELUR filing requirements.

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- 1. The depth of excavations in some area will be limited by depth of footings and location of subsurface conduits, which are known to be less than 2 feet in depth in some areas.
- 2. The timeframe to complete interior soil removal and construct an interior vault pit cover to protect conduits for concrete remediation may extend to a 2<sup>nd</sup> power outage period in the fall of 2016. Each power outage event is typically limited to less than 12 hours.

#### 3.1 Access Control

AOC 906 is located within Allnex's property perimeter fence line and is isolated from outside access. Access by workers in Allnex's Production facilities will be limited by placement of fencing, barricades and signage to form an exclusion, contaminant reduction and "Hot Zone".

#### 3.2 Health and Safety

All workers entering the exclusion zone will be trained in accordance with Occupational Health and Safety 1910-120 Hazardous waste requirements and receive PCB specific awareness training. All employees must also have completed Allnex's facility specific Safety Training. A Health and Safety Plan will be developed for the intrusive work. Remediation workers accessing the cable pit or cable vault will require training in confined space entry and will be subject to Allnex health and safety protocols for confined space and electrical maintenance activities. Access to the cable pit and cable vault will be limited to shut down periods when high voltage lines are deenergized.

#### 3.3 Soil Excavation

As described in Section 2, total PCBs measuring greater than 10 mg/Kg in soils outside of the substation structure are limited to an area approximately 900 sq ft in size. The total excavation depth needed to remove soils impacted with PCBs at concentrations greater than 10 mg/Kg (CT industrial/Commercial Criteria) is expected to range from two to three feet below the ground surface, with a two foot minimum excavation depth set as a goal. In some areas, the depth of excavation will be less than 2 feet where there are shallow foundation structures, such as the concrete piers for the switch panel (See Figure 7), or where shallow underground conduits or utilities are present. The anticipated volume of soil planned for removal, based on existing sample data, is approximately 60 to 90 cubic yards. The extent of excavation in areas surrounding and adjacent to the substation is shown on Figure 6.

The excavation approaches in areas within and outside of the structure will be re-evaluated should observations indicate that migration has occurred to any significant extent laterally or below the anticipated depth interval (2 to 3 feet), or if subsurface features (e.g. underground utilities) or access restrictions prevent excavation to the desired depth. Allnex will consult with USEPA and the CTDEEP should there be limitations encountered in removing PCB contaminated soils at levels above CTDEEP I/C direct exposure criteria. In such cases, Allnex may also be required to issue an Engineered Control Variance request to the CTDEEP under section 22a-133k-2(f)(2) of the Connecticut RSRs.

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Impacted soils within the substation structure will be removed by manual or vacuum methods from the two open cable pits at the northern end, and within the accessible cable vault in the central portion of the substation structure. Attempts will be made to remove the upper 6 to 12 inches soil material, collect representative confirmation samples, and backfill with crushed stone. Excavation depth within the cable vault will be limited to the depth of the bottom of the foundation footings. The removal areas within the structure are shown on Figure 7.

After removal of the concrete slab over the inaccessible cable vault, soil samples will be collected for PCBs analysis, if soil is present, from the base of this vault. Allnex will determine the need for soil removal based on laboratory analytical results from these samples. Soil with PCBs >10 mg/Kg will be removed.

Excavated materials will be handled as bulk PCB remediation waste assumed to contain concentrations  $\geq$  50 mg/Kg and disposed of in accordance with the requirements of 40 CFR 761.61(a)(5)(i)(B)(2)(i) and 761.61(a)(5)(i)(B)(2)(iii).

#### 3.4 Concrete Remediation

Allnex expects to maintain the former Substation F concrete pad structure for future use as there are active electrical conduits (both high and low voltage) below the pad. The electrical conduits pass through the interior of the former pad structure from the adjacent and active substation transformer located to the east. These below-grade electrical service lines are critical to facility operations and serve the entire resins manufacturing operations of Allnex within Buildings 5 and 6. The identified utility corridors, including high-voltage electrical conduits, leading to/extending from AOC 906 are shown on Figures 3 and 4. The concrete pad cover over the inaccessible and accessible cable vault will be cut, removed, and prepared for disposal as PCB remediation waste. The removal will be completed after an interior cover system has been installed to protect high voltage conduits in the accessible cable vault (See Figure 7). No currently active electrical conduits are present within the inaccessible cable vault. Concrete removal will occur after exterior soil removal to allow space for a cutting machine along the outside perimeter of the structure.

Following concrete removal, Allnex plans to complete cleaning of sidewall surfaces where PCBs exceed 25 mg/kg for bulk analysis, in accordance with 40 CFR 761 Subpart S to depths between 2 and 3 feet below grade along the outer walls. Following this treatment, surfaces will require repairs to allow for application of water-resistant protective paint or coating that will be applied to cleaned surfaces. The application of water-resistant paint is intended to the meet the requirements of 40 CFR 761.30(p) for continued use of porous surfaces contaminated with PCBs. Meeting the standard under 40 CFR 761.30(p) is a secondary objective to prevent direct contact with PCBs. The treatment area is depicted on Figure 7 and will also include surfaces along the perimeter of the cable pits where lower (< 25 mg/Kg) concentration PCBs have been detected. Following treatment, markings in accordance with 40 CFR 761.30(p)(1)(iii)(B) will be posted.

Following treatment of concrete surfaces, Allnex will replace the concrete slab removed over cable vaults with a custom fit or formed cover to prevent access and infiltration from precipitation and runoff.

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Because power shutdown periods are very brief (generally 12 hours or less) and occur once per year, Allnex is proposing to complete work in the cable pits and the accessible vault during the next shutdown event, which is scheduled for September 2015.

Soil and concrete waste materials will be handled as bulk PCB remediation waste assumed to contain concentrations  $\geq$  50 mg/Kg and disposed of in accordance with the requirements of 40 CFR 761.61(a)(5)(i)(B)(2)(i) and 761.61(a)(5)(i)(B)(2)(iii).

#### 3.5 Post-Excavation Sampling

Post-excavation verification sampling is planned within the footprint and along the perimeter of the excavation, as shown in Figure 6 and summarized in Table 2, and within the accessible portions of the substation structure, as depicted on Figure 7. Post-excavation sample locations will be collected consistent with provisions of 40 CFR Part 761, Subpart O. Additional samples may be needed if soil removal occurs beyond the limits of the planned removal areas shown on Figure 6 and Figure 7, or if analytical results along the perimeter of the sampling grid exceed the target cleanup level of 10 mg/Kg. Each sample will be analyzed for PCBs in accordance with 40 CFR §761.292 using USEPA method 8082/Extraction by method 3540 (Soxhlet extraction procedure). Selected samples will also be analyzed for PCBs (8082) by Synthetic Precipitation Leaching Procedure (SPLP - 1312)

#### 3.6 Transportation and Disposal

Excavated materials will be either stockpiled in a lined and covered berm area for no more than 180 days, constructed in accordance with 40 CFR 761.65(c)(9), or directly loaded into box containers or trucks pending disposal as PCB remediation waste assumed to contain PCB concentrations ≥ 50 mg/Kg at a PCB disposal facility approved under 40 CFR Part 761, or in a hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA. All solvents, cleaners, and absorbent materials that may be generated during decontamination activities will be handled in accordance with 40 CFR 761.79(g) and disposed of in accordance with the requirements of 40 CFR 761.61(a)(5)(i)(B)(2)(iii).

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#### 3.7 Site Restoration

Upon the completion of removal effort, a geotextile or similar fabric acting as a demarcation barrier will be placed throughout the excavation area to identify the horizontal and vertical extent of the remedial action. Excavations will be backfilled with granular soils. Previously paved areas will be restored with a minimum 3-inch bituminous pavement cover over areas where fill is placed. In other areas that are disturbed, a minimum 6-inch layer of crushed stone will be placed over the granular soil backfill to match existing grade. A 3-inch minimum thickness bituminous pavement cover may also be placed where excavations encroach upon existing paved areas. A 3 to 6-inch layer of crushed stone will be place over the base of excavated areas inside pits and vaults following the collection of soil samples. In areas where soils having PCBs ≥ 1 mg/Kg remain, additional cover will be placed to reduce potential worker exposure and tracking of PCBs. There is no vegetation in the area of AOC 906.

#### 3.8 Environmental Land Use Restriction

Allnex will file an ELUR applied to AOC 906 upon completion of remediation as required to meet low occupancy deed restriction requirements under Toxic Substances Control Act and requirements under the Connecticut RSRs. The ELUR will be required due to the fact that concrete materials exceeding 25 mg/Kg will remain in portions of the vault. The ELUR will also be needed to address soil remaining above Connecticut RSR Criteria. In order to fulfill the requirements of the ELUR, an Engineered Control Variance under CTDEEP RSRs may be required if soil remains above RSR Criteria at certain depths. Alternatively, Allnex may elect to install a fence to restrict access in order to render soils inaccessible under the RSRs (section 22a-133k-2(b)(3)). Soil confirmation results will determine the basis of an engineered control variance, if needed.

#### 3.9 Groundwater Monitoring

After soil remediation, two groundwater monitoring wells (MW-28 and MW-29) will be installed immediately downgradient (west/southwest) of AOC 906. These wells will be installed in the upper shallow aquifer. Following CT RSR requirements, groundwater wells will be sampled quarterly for one year after remediation is complete. Additional sampling rounds may be needed should analytical results show PCB detections above the current CTDEEP Surface Water Protection Criteria of 0.5  $\mu$ g/L. Planned monitoring well locations are shown on Figure 6. Samples will be analyzed at an approved laboratory for PCBs by USEPA Method 8082. Monitoring results will be reported to USEPA in a supplemental report after the last sampling event. A groundwater monitoring plan outlining the post-remediation groundwater sampling and analytical program at AOC 906 is provided in Appendix D.

#### 3.10 Notifications and Certifications

Allnex will place a clearly visible 6 foot by 4 foot sign providing contact information for public inquiry.

Project No.: 3616086024

September 2015



As required under 40 CFR 761.61 (a)(3)(E) a signed certification for the remediation of bulk PCB remediation waste is provided in Appendix E.

#### 3.11 Remedial Schedule

The remediation work is scheduled to commence in September 2015. The exact schedule may be subject to change due to weather conditions and timing of plant activities, which will need to be considered. The proposed sequence of events is outlined below, with additional information outlined in the 2015 Contractor Work Plan.

- August 24 September 8: Pre-shutdown (Power Outage) Field Activities.
  - Coordinate access, prepare barrier supports, and construct soil staging area.
- September 12-13: Activities Planned During 2015 Power Outage.
  - o Remove interior soils, collect confirmation samples, backfill excavations, construct protective barrier, and prepare concrete cover for removal.
- September 14 October 2: (Post-shutdown Activities).
  - Remove exterior soils, remove concrete cover, clean and coat concrete surfaces, collect confirmation samples, and backfill excavations.
- November 2015: Install post-remediation groundwater monitoring wells.
- November 2015 to August 2016: Complete groundwater monitoring program.
  - Quarterly sampling (4 rounds).
- September 2016: Power Outage Activities.
  - Dismantle and remove the interior support table.
- October 2016: Preparation of Groundwater Monitoring Report.
- October 2016: Filing of ELUR.
  - Assumes 60-days following last groundwater sampling event.
- November 2016: Preparation of Completion Report.
- December 2016: Submittal of Completion Report, including Groundwater Monitoring Report.

Project No.: 3616086024

September 2015



#### 4.0 REFERENCES

- CTDEEP 2007, Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols Guidance Document, State of Connecticut Department of Environmental Protection, November, 2007.
- MACTEC, 2009a, Phase I Environmental Site Assessment Report, prepared by MACTEC Engineering and Consulting Inc., Portland, Maine, September, 2009.
- MACTEC, 2009b. Quality Assurance Project Plan, Cytec Industries Site, Wallingford, Connecticut, prepared by MACTEC Engineering and Consulting Inc., Portland, Maine, February 2009.
- USEPA, 1996. "Region I, USEPA-New England Data Validation Functional Guidelines For Evaluating Environmental Analyses, Parts I and II," Revised December 1996 by the USEPA-New England Region I Quality Assurance Unit of the Office of Environmental Measurements and Evaluation.





## Table 1 Analytical Results Summary

#### AOC 906 Substation F Remedial Action Plan

PARAMETER PCBs, Total ETPH						
Location ID	Sample Date	Depth (ft bgs)	PCBs, Total Result	Result		
Exterior Samp	ole Locations	Depth (It bgs)	Nesuit	Result		
Exterior Sample Locations Surface/Subsurface Soil Samples						
SS-109	8/8/2011	0-2 ft	100	640		
SS-109	8/8/2011	0-2 ft	14	33		
SS-110	8/8/2011	0-2 ft	13	140		
SS-111		0-2 ft	21	38		
	8/9/2011		75	53		
SS-113	8/9/2011	0-2 ft				
SS-114	8/9/2011	0-2 ft	0.027	- NC		
SS-171	8/22/2012	0-1 ft	-	NS 05		
SS-172	7/31/2012	0-1 ft	5.44	35		
SS-173	7/31/2012	0-1 ft	1.26	6.8		
SS-174	7/31/2012	0-1 ft	7	NS NS		
SS-175	7/31/2012	0-1 ft	7	NS		
SS-176	7/31/2012	0-1 ft	31.8	130		
SS-177	7/31/2012	0-1 ft	0.68	140		
SS-179	7/31/2012	0-1 ft	1.54	NS		
SS-180	7/31/2012	0-1 ft	50.1	NS		
SS-181	8/3/2012	0-1 ft	0.9	NS		
SS-182	8/3/2012	0-1 ft	1.44	NS		
SS-183	8/3/2012	0-1 ft	0.13	NS		
SS-184	8/3/2012	0-1 ft	0.35	NS		
SS-185	8/3/2012	0-1 ft	0.31	NS		
SS-186	7/30/2012	0-1 ft	1.58	NS		
SS-187	7/30/2012	0-1 ft	4.09	NS		
SS-188	7/30/2012	0-1 ft	2.4	NS		
SS-189	7/30/2012	0-1 ft	10.8	NS		
SS-190	7/30/2012	0-1 ft	22.8	NS		
BG S18	8/15/1988	1.5 ft	16	NS		
SB-1115	7/25/2013	2-3 ft	2.2	NS		
SB-1116	7/25/2013	2-3 ft	22	NS		
SB-1117	8/3/2013	1-2 ft	5.3	NS		
SB-1118	8/3/2013	2-3 ft	0.17	NS		
SB-1119	7/25/2013	2-3 ft	-	NS		
SB-1120	7/25/2013	2-3 ft	0.67	NS		
SB-1121	7/25/2013	2-3 ft	0.32	NS		
SB-1122	7/24/2013	2-3 ft	-	NS		
SB-1123	7/24/2013	2-3 ft	31	NS		
SB-1124	8/3/2013	2-3 ft	20	NS		
Concrete Chip Samples						
CC-09	7/12/2012	0-0.1 ft	230	NS		
CC-10	7/12/2012	0-0.1 ft	300	NS		
CC-11	7/12/2012	0-0.1 ft	46	NS		
CC-9	7/30/2013	1-3 in	78	NS		
CC-10	7/30/2013	1-2 in	150	NS		
L		•		-		

#### Table 1 Analytical Results Summary

#### AOC 906 Substation F Remedial Action Plan

Landin ID	OI- D-1-	PARAMETER	PCBs, Total	ETPH				
Location ID	Sample Date	Depth (ft bgs)	Result	Result				
CC-11	7/30/2013	1-2 in	6.3	NS				
CC-12	8/5/2013	0.0-0.5 in	150	NS				
CC-12	8/5/2013	0.5-1.0 in	94	NS				
Concrete Chip	Concrete Chip Samples							
CC-13	8/1/2013	0.0-0.5 in	7.6	NS				
CC-13	8/1/2013	0.5-1.0 in	2.6	NS				
CC-14	8/5/2013	0.0-0.5 in	57	NS				
CC-14	8/5/2013	0.5-1.0 in	3.8	NS				
CC-15	7/31/2013	0.0-0.5 in	9.5	NS				
CC-15	7/31/2013	0.5-1.0 in	8.3	NS				
CC-16	7/31/2013	0.0-0.5 in	0.93	NS				
CC-16	7/31/2013	0.5-1.0 in	0.12	NS				
CC-17	7/31/2013	0.0-0.5 in	-	NS				
CC-17	7/31/2013	0.5-1.0 in	-	NS				
Wipe Samples								
Wipe-1	8/19/2011	NA	0.18	NS				
Wipe-2	8/19/2011	NA	-	NS				
Wipe-3	8/19/2011	NA	-	NS				
Interior Sampl	e Locations							
Soil Samples								
SD-41	8/3/2013	0-0.1 ft	19	NS				
SD-42	8/3/2013	0-0.1 ft	23	NS				
SB-1127	9/13/2014	0-0.3 ft	130	NS				
SB-1127	9/13/2014	0.3-1.3 ft	3.1	NS				
SB-1128	9/13/2014	0-0.3 ft	0.37	NS				
SB-1128	9/13/2014	0.3-1.3 ft	0.051	NS				
SB-1129	9/13/2014	0-0.3 ft	9.5	NS				
SB-1129	9/13/2014	0.3-1.3 ft	0.077	NS				
		eported in mg/L)						
SB-1127	9/13/2014	0-0.3 ft	0.021	NS				
SB-1128	9/13/2014	0-0.3 ft	-	NS				
SB-1129	9/13/2014	0-0.3 ft	-	NS				
Concrete Chip Samples								
CC-18	9/13/2014	0-0.5 in	1.1	NS				
CC-19	9/13/2014	0-0.5 in	0.1	NS				
CC-20	9/13/2014	0-0.5 in	0.42	NS				
CC-21	9/13/2014	0-0.5 in	0.13	NS				
CC-22	9/13/2014	0-0.5 in	0.68	NS				
CC-23	9/13/2014	0-0.5 in	0.79	NS				
CC-24	9/13/2014	0-0.5 in	0.17	NS				
CC-25	9/13/2014	0-0.5 in	0.7	NS				

## Table 1 Analytical Results Summary

#### AOC 906 Substation F Remedial Action Plan

Location ID	Sample Date	PARAMETER PCBs, Tota		ETPH	
		Depth (ft bgs)	Result	Result	

Notes:

Prepared by: LJB 9/19/2013 Checked By: NMB 9/19/2013

AOC = Area of Concern

PCBs = polychlorinated biphenyls

EPTH = Extractable Petroleum Hydrocarbons (total)

ft bgs = Sample Depth in feet below ground surface

SS = Surface Soil Sample; CC = concrete chip sample

Soil/concrete results reported in milligrams per kilogram (mg/Kg); Wipe samples results

expressed as mg/ 100 cm<sup>2</sup> of PCBs per wipe sample

**Bold** = Compound detected in sample

- = Below quantitation limit

NS = Not Sampled; NA = Not Applicable

### Table 2 Post-Excavation Sampling Plan - Exterior Locations

AOC 906 Substation F Remedial Action Plan

	Position (feet from Western grid line)	+ 0 feet	+ 5 feet	+ 10 feet	+ 15 feet	+ 20 feet	+ 25 feet	+ 30 feet	+ 35 feet
	Transect ID	Sample Locat	ion ID along to	ansect (from \	W to E)				
North	C1	SS-C1+00	SS-C1+05	SS-C1+10	SS-C1+15	SS-C1+20	SS-C1+25	SS-C1+30	SS-C1+35
$\Lambda$	C2	SS-C2+00	SS-C2+05	-	SS-C2+15	SS-C2+20	SS-C2+25	SS-C2+30	SS-C2+35
T	C3	SS-C3+00	SS-C3+05	-	-	SS-C3+20	SS-C3+25	SS-C3+30	SS-C3+35
	C4	SS-C4+00	SS-C4+05	-	SS-C4+15	SS-C4+20	-	-	-
	C5	SS-C5+00	SS-C5+05	-	SS-C5+15	SS-C5+20	-	-	-
	C6	SS-C6+00	SS-C6+05	-	SS-C6+15	SS-C6+20	-	-	-
	C7	SS-C7+00	SS-C7+05	SS-C7+10	SS-C7+15	SS-C7+20	-	-	-
	C8	SS-C8+00	SS-C8+05	SS-C8+10	SS-C8+15	SS-C8+20	-	-	-
	C9	SS-C9+00	SS-C9+05	SS-C9+10	SS-C9+15	SS-C9+20	SS-C9+25	SS-C9+30	SS-C9+35
South	C10	SS-C10+00	SS-C10+05	SS-C10+10	SS-C10+15	SS-C10+20	SS-C10+25	SS-C10+30	SS-C10+35

Notes:

Prepared/Date: LJB 10/25/2012 Checked/Date: NMB 11/1/2012

1) One soil sample will be collected at the excavation bottom surface from 0 to 3 inches in depth at each location.

2) Each sample will be analyzed for PCBs in accordance with 40 CFR §761.292 using USEPA method 8082/Extraction by method 3540 (Soxhlet extraction procedure).

- 3) Synthetic Precipitation Leaching Procedure (SPLP) PCB analysis by USEPA Method 1312/8082 may be conducted based on initial mass analysis. Additional confirmation samples may be needed based upon initial findings.
- = No sample planned at this location.

## APPENDIX A POST-EXCAVATION ANALYTICAL RESULTS (AUGUST 1988)

Som



**American Cyanamid Company** 

Polymer Products Division P.O. Box 425 Wallingford CT. 06492 (203) 269-4481

September 9, 1988

State of Connecticut
Department of Environmental Protection
Hazardous Materials Management Unit
Oil and Chemical Spill Section
122 Washington Street
Hartford, Connecticut 06106

Attention: Mr. John Porter

Field Inspector

Dear Mr. Porter:

Enclosed please find the test results for PCB analyses of soil samples taken from the excavation area next to the transformer at Substation "F" at this plant.

The coding system is as follows:

- a) PE Al through A6 are the samples collected on the north side of the excavation at depths of 1, 2, 3, 4, 5 and 6 feet.
- b) PE Bl through B6 are the samples collected on the west side of the excavation at depths of 1 through 6 feet.
- c) PE Cl through C6 are the samples collected on the south side of the excavation at depths of l through 6 feet.
- d) BG N18 is a sample taken 18 inches below grade just past the north end of the transformer pad.
- e) BG E18 is a sample taken 18 inches below grade approximately 6 feet east of the transformer pad.
- f) BG S18 is a sample taken 18 inches below grade approximately 6 feet south of the transformer pad.

Contact me if you have any questions concerning these results.

Very truly yours,

Charles J. Cappannari Environmental Engineer

Charles J Cappannan

jp/cc
Enclosures

### BARON CONSULTING CO.

HARRY AGAHIGIAN, Ph.D., DIRECTOR

analytical services

P.O. BOX 663, ORANGE CT. 06477

BC# 61188

Re:

Page 1 of 2

August 15, 1988

Mr. C. DisGrow American Cyanamid Co. P. O. Box 425 Wallingford, Ct.

Analysis Of 21 Soil Samples

BC# 61188

PCB Content Aroclor PE Al ND<2 PE A2 ND<2 PE A3 ND<2 PE A4 ND<2 PE A5 ND<2 PE A6 ND<2 PE Bl <2 1260 PE B2 <2 1260 PE B3 ND<2 PE B4 <2 1260 PE B5 ND<2 PE B6 ND<2 PE Cl <2 1260 PE C2 1260 PE C3 ND<2 PE C4 ND<2

This report is submitted with the understanding that it is not to be reproduced for advertising or other purposes over our signature without express written permission from us. We do not accept any liability concerning the use of these results.

NOT RESPONSIBLE FOR SAMPLES LEFT OVER 30 DAYS AFTER RECEIPT OF REPORT

Connecticut Public Health Laboratory No. 0440

EPA Number CT015

Page b2 of 2 BC# 61188

		PCB Content	Aroclor
PE C5		ND<2	-
PE C6		<2	1260
BG N18		<2	1260
BG El8	•	<2	1260
BG S18		16	1260

Results are in ppm.

Please review the data and contact us if you wish more information.

Vinothy Pusco

TF/rsb

Timothy Fusco Chemist

## APPENDIX B FIELD DATA RECORDS

	SURFACE SOIL SAM	PLING RECORD	
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES	PROJECT NAME YTEC  PROJECT NUMBER  SAMPLE ID  SAMPLE INTERVAL:  TOP  BOTTOM  TYPE OF MATERIAL:	SAMPLE TIME SITE NAME/N	906 8/8/11 5:15 END TIME 15:40
DUPLICATE  EQ BLK  MS/MSD;  YES  NO  ANALYTICAL PARAMETERS	ORGANIC SAND GRAVEL CLAY PILL OTHER	S.S. BUCKET OTHER  SAMPLE OBSERVATIONS ODOR COLOR OTHER	METHANOL DI WATER N2 PURGE OTHER  PIELD SKETCH SHOWNATTACHED  YES NO
PARAMETER PCBS ETPH  NOTES	METHOD NUMBER PRESERVATION METHOD  T.C. e. J.  C.T. Method	VOLUME REQUIRED SAMPLE COLLECTY  (1) 802 V  V  SKETCH	
1'2"-2' Brown	in. Little sand, F sand; some M sand	See sket	th for 55-110. [Vault lids.
	PCB wipe sample.	55-109 (5'0") Stein Wipe-1	Former pipe penetrations Through pad into Vault below. 2'0"
Samplor Signature: Rek Wayes Checked By:	R Price Name: Rick Welzak Date: 1/25/12		

	SURFACE SOIL SAM	APLING RECORD		
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLX  MS/MSD: YES NO	PROJECT NAME  CYTEC  PROJECT NUMBER  36/6 08/60 2  SAMPLE ID  SAMPLE INTERVAL: (FT) @  TOP  BOTTOM  TYPE OF MATERIAL:  ORGANIC  SAND  GRAVEL  CLAY  FILL  OTHER	SAMPLE TIME SI 15:00	ULA III	DATE 8/8/// END TIME 15: 05  PAGE OF CONFLUIDS USED CONFLUIDS USED CONFLUIDS USED CONFLUIDS WATER COTABLE WATER CO
ANALYTICAL PARAMETERS	The second of th	A COLLARIO		· ,, ,, a.u. ,, ,, ,,
PARAMETER PCBS	METHOD NUMBER  8083  CT Method  TCC	VOLUME REQUIRED	SAMPLE QC COLLECTED	SAMPLE BOTTLE ID NUMBERS SS 1/0
8in-2ft. Brown M Sand	former transform = 5'bgs. vel aprin: 9 Fsand; Some	9 Pad	Pad - Form Vauthor: 55-109	SS-111 SS-111 SS-112 SS-112 110
Samplor Signature: Rick Walnak Checked By:	Print Name: Rick Walzerk Date: 1/26/12.			

SURFACE SOIL SAMPLING RECORD				
MACTEC 511 Congress Street, Portland Malno 04101	PROJECT NAME  PROJECT NUMBER  361608606  SAMPLE ID	SAMPLE LOCATION DATE 8/9/11  START TIME 13:20 END TIME 4:12  SAMPLE TIME SITE NAME/NUMBER PAGE		
SAMPLE INFORMATION TYPE OF SAMPLE	SAMPLE INTERVAL:	14:00 Substation F OF COLLECTION EOUPMENT DECONFLUIDS USED		
DISCRETE COMPOSITE .  QC SAMPLES	TOP OF TOP J. IF	HAND AUGER/CORER  S.S. SPLIT BARREL  ALUMINIUM PAN  ALUMINIUM PAN  S.S. SPOVEL  NICHIC ACID		
DUPLICATE EQ BLK  MS/MSD: YES NO	ORGANIC SAND ORAVEL CLAY FILL OTHER	S.S. SHOVEL  HAND SPOON/SPATULA  S.S. BUCKET  OTHER  SAMPLE OBSERVATIONS  ODOR  COLOR  OTHER  FIELD SKETCH SHOWN/ATTACHED  YES  NO		
ANALYTICAL PARAMETERS  PARAMETER  PARAMETER	METHOD NUMBER  SOSO  The Modern METHOD  The Modern Method	VOLUME REQUIRED SAMPLE COLLECTED COLLECTED NUMBERS  SS-121  SS		
NOTES  O-5 in Gravel ap  THE RW  5"-1" Brown	rin.a	SEE FOR for SS-110.  and below.  Liquid level  Prair  Pring  For mer  Connecte  Coller		
gravel. (1/10"-2'2" Orang	Trace F gravel. Little Sand = pea Base for pad?  The brown F sand;  M Sand.	Cunder drain 1128 Switch  Cuipe -3  Curver left edge Breakers  of collai)  SS-113		
Sampler Signature: Rick Walnut Checked By:	Print Names: Rick Walzuk  Date: 1/45/12	Wipe Samples Wipe-2 + Wipe-3.		

SURFACE SOIL SAMPLING RECORD					
MACTEC 511 Corgress Street, Portland Maine 04101	PROJECT NAME  PROJECT NUMBER  36/608		8/8/11		
SAMPLE INFORMATION  TYPE OF SAMPLE	SAMPLE INTERVAL:	15:55 Substation F  COLLECTION EQUIPMENT CONFIGURE  COLLECTION EQUIPMENT DECONFIGURE	ast of 9 Page		
DISCRETE COMPOSITE .	TYPE OF MATERIAL:	HAND AUGER/CORER  S.S. SPLIT BARREL  ALLIMINIUM PAN  S.S. SHOVEL  HAND AUGER/CORER  LQUINOX  DEJONIZED WA  POTABLE WAT  NITRIC ACID	i i		
DUPLICATE EQ BLR  MS/MSD:  YES NO	ORGANIC SAND GRAVEL CLAY FILL OTHER	S.S. BUCKET  HAND SPOON/SPATULA  S.S. BUCKET  OTHER  SAMPLE OBSERVATIONS  ODOR  COLOR  OTHER  YES  NO  YES  NO			
ANALYTICAL PARAMETERS	, appropriate the second of th				
PARAMETER PCBS ETPH	METHOD NUMBER  RESERVATION METHOD  Tre  V	SKETCH COLLECTED	MPLE BOTTLE ID NUMBERS		
0-2ft. Grav Sand mixed	lin.	See selw sketch to. 55-110.			
Sauck by a pipe	at 1'3".				
Former Pad.			,		
Sampler Signature: Rick Waha Checked By:	R Print Name: Rick Walze	ık			

	SURFACE SOIL SAY	IPLING RECORE		
#MACTEC 511 Congress Street, Portland Maine 04101	PROJECT NAME CYTEC		SAMPLE LOCATION  ACC 906	DATE 8/9/11
	36/608 ( SAMPLE ID SS-1/3	SAMPLE TIME	START TIME  SITE NAME/NUMBER  Substantion F	PAGE 1 OF
SAMPLE INFORMATION TYPE OF SAMPLE	SAMPLE INTERVAL:	COLLECTION	(Current) Ea	st of 9 Pad.
DISCRETE COMPOSITE .	BOTTOM 2 H	HAND AUGE S.S. SPLIT BA	RREL	LIQUINOX DEIONIZED WATER POTABLE WATER
OC SAMPLES  DUPLICATE  EQ BLK  MS/MSD:  YES  NO	TYPE OF MATERIAL:  ORGANIC SAND GRAVEL CLAY FILL OTHER	S.S. SHOVEL HAND SPOOL S.S. BUCKET OTHER  SAMPLE OBSER ODOR COLOR	VATIONS.	NITRIC ACID HEXANE METHANOL D) WATER N, PURGE OTHER
ANALYTICAL PARAMETERS		OTHER	ne y	YES NO
ANALYTICAL PARAMETERS  PARAMETER  PARAMETER	METHOD NUMBER PRESERVATION METHOD  TCL  TOT Method	VOLUME REQUER	SAMPLE QC COLLECTED COLLECT	SAMPLE EOTTLE ID NUMBERS
Notes 0-5in Gravel a 5in-10" Brown Sandi To 10"-17" Peago	F send; Some M	SKETCH	See sketch	for SS-112.
17"-2'0" Brown Some	on F Sand;  M Sand;  F Gravel,			
	·			
1 (/1///	Print Nums: Rick Walzak  Date: 1/25/12	,		

	SURFACE SOIL SAM	PLING RECORD	
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES	PROJECT NAME  PROJECT NUMBER  36/608  SAMPLE ID  SAMPLE INTERVAL:  TOP  BOTTOM  TYPE OF MATERIAL:  ORGANIC  SAND  GRAVEL  CLAY  FILL	SAMPLE LOCATION  START TIME  START TIME  SITE NAME/NUMBER  SUBSTATIO  COLLECTION EQUIPMENT  HAND AUGER/CORER  S.S. SPLIT BARREL  ALUMINIUM PAN  S.S. SHOVEL  HAND SPOON/SPATULA  S.S. BUCKET  OTHER  SAMPLE OBSERVATIONS  ODOR	DATE 8/9/// END TIME /5:15  PAGE / OF /  EAST OF / PAGE DECON FLUIDS LISED  LIQUINOX DBIONIZED WATER NITRIG ACID HEXANE METHANDL DI WATER N2 PURGE OTHER  FIELD SKETCH SHOWN/ATTACHED
<b>∫</b> ⊠ № .	OTHER	OTHER STAINING	YES NO
ANALYTICAL PARAMETERS	- The state of the		· · · · · · · · · · · · · · · · · · ·
PARAMETER ICBS	METHOD NUMBER PRESERVATION METHOD  Title the disconnection of the second	VOLUME REQUIRED SAMPLE COLLECTED OF	QC SAMPLE BOTTLE ID NUMBERS
O-1'1" Gravel 1'1"- 2ft. Orange Some M sand;		See sketch fo	Sr SS-112.
Surface grav been stained tell.	el may have		
Sampler Signature: Rick Wahak Checked By:	Print Name: Rick Walzak Date: 1, 25/12		

Surface Concrete Chip Sampling Record SAMPLE LOCATION

ACC 90 PROJECT NAME 511 Congress Street, Portland Maine 04101 PROJECT NUMBER START TIME END TIME SAMPLE ID SITE NAME/NUMBER Former Substatio SAMPLE INFORMATION TYPE OF SAMPLE SAMPLE INTERVAL: COLLECTION EQUIPMENT DECON FLUIDS USED DISCRETE HAND AUGER/CORER LIQUINOX COMPOSITE CONCrete DEIONIZED WATER S.S. SPLIT BARREL Chip ALUMINIUM PAN POTABLE WATER TYPE OF MATERIAL: S.S. SHOVEL NITRIC ACID HAND SPOON/SPATULA HEXANE DUPLICATE N ORGANIC METHANOL EQ BLK SAND DI WATER N2 PURGE GRAVEL SAMPLE OBSERVATIONS ODOR FIELD SKETCH SHOWN/ATTACHED COLOR OTHER YES ANALYTICAL PARAMETERS PARAMETER METHOD NUMBER PRESERVATION SAMPLE QC COLLECTED SAMPLE BOTTLE ID VOLUME REQUIRED COLLECTED 8082 CC-9 No SKETCH & Former pipe/conduit slab penetrations now concrete filled. Vault lids CC-9 I foot by I foot. CC-10+11 are one foot square also. Switch 55-This location adjacent to SS-109. Same procedure as CC-11. Bit deconed between location. Staining Cc-9 CC - 10 Former Substation F Pad not current pad Sampler Signature: Rick Walzak hecked By

Surface Concrete Chip Sampling Record 2012 Phace Tit END TIME 76**18**086024 SAMPLE ID SAMPLE TIME SITE NAME/NUMBER SAMPLE INFORMATION TYPE OF SAMPLE SAMPLE INTERVAL: COLLECTION EQUIPMENT DECON FLUIDS USED HAND AUGER/CORER LIQUINOX S,S. SPLIT BARREL DEIONIZED WATER ALUMINIUM PAN POTABLE WATER TYPE OF MATERIAL: S.S. SHOVEL NITRIC ACID HAND SPOON/SPATULA HEXANE DUPLICATE ORGANIC S.Ş. BUCKET METHANOL EO BLK SAND DI WATER N2 PURGE GRAVEL OTHER MS/MSD CLAY FILL. FIELD SKETCH SHOWN/ATTACHED ANALYTICAL PARAMETERS PRESERVATION SAMPLE PARAMETER METHOD NUMBER VOLUME REQUIRED SAMPLE BOTTLE ID NUMBERS METHOD COLLECTED 402 808) No CC-10 Bit deconed between locations. SKETCH See FOR for CC-9 Same procedure as CC-11. This location is the stained area. Sampler Signature: Rick Websek Print Name: Rick Walzak hecked By:

Date:

Surface Concrete Chip Sampling Record SAMPLE LOCATION 511 Congress Street, Portland Maine 04101 PROJECT NUMBER END TIME 15:00 616086024 SAMPLE ID SAMPLE TIME SITE NAME/NUMBER Former Substat SAMPLE INFORMATION TYPE OF SAMPLE SAMPLE INTERVAL: COLLECTION EQUIPMENT DECON FLUIDS USED DISCRETE HAND AUGER/CORER LIQUINOX Concrete S.S. SPLIT BARREL DEIONIZED WATER ALUMINIUM PAN POTABLE WATER QC SAMPLES TYPE OF MATERIAL S.S. SHOVEL NITRIC ACID HAND SPOON/SPATULA HEXANE DUPLICATE ORGANIC METHANOL EQ BLK SAND DI WATER N2 PURGE GRAVEL MS/MSD: SAMPLE OBSERVATIONS FIELD SKETCH SHOWN/ATTACHED ANALYTICAL PARAMETERS PRESERVATION METHOD NUMBER SAMPLE SAMPLE BOTTLE ID VOLUME REQUIRED COLLECTED CC-SKETCH See FDR for CC-9 Hammer drill but decored Used to create powder. Powder jared with gloved hand. Rek Walsak Print Name: Rick Walzak

Checked By:

	SURFACE SOIL SA	MPLING RECORD	`
MACTEC	PROJECT NAME	SAMPLE LOCATIO	
511 Congress Street, Portland Maine 04101	PROJECT NUMBER 3616086	START TIME	906 8/22/12 END TIME
	SAMPLE ID -		1450
CLASS TO NUMBER OF THE PARTY OF	55-171	SAMPLE TIME SITE NAME/NUMB	
SAMPLE INFORMATION  TYPE OF SAMPLE	SAMPLE INTERVAL:	COLLECTION EQUIPMENT	DECON FLUIDS USED
DISCRETE COMPOSITE .	TOP O.O'	HAND AUGER/CORER S.S. SPLIT BARREL	LIQUINOX
OC SAMPLES	TVDE OF MATERIAL.	ALUMINIUM PAN	DEIONIZED WATER POTABLE WATER
	TYPE OF MATERIAL:	S.S. SHOVEL HAND SPOON/SPATULA	NITRIC ACID HEXANE
DUPLICATE NO EQ BLK	ORGANIC SAND	S.S. BUCKET OTHER	METHANOL DI WATER N <sub>2</sub> PURGE
MS/MSD:	GRAVEL CLAY	SAMPLE OBSERVATIONS	OTHER
YES	FILL	ODOR	FIELD SKETCH SHOWN/ATTACHED
NO NO	OTHER	OTHER OTHER	YES
			NO
ANALYTICAL PARAMETERS		* **** · · · · · · · · · · · · · · · ·	
PARAMETER  OCE  2	METHOD NUMBER PRESERVATION METHOD	VOLUME REQUIRED COLLECTED	QC SAMPLE BOTTLE ID COLLECTED NUMBERS
	346-8082 4°C	1 x 807 YES	<u>No</u> <u>SS-1/1</u>
NOTES O, 2' LANER F	BLACKTOP	SKETCH	
NOTES O. 2' LAYER E SURFACE.		SEE FIGUR	E & FROM
· · · · · · · · · · · · · · · · · · ·		WORK DLAN	, AND SAMPLE
0.0-0.3 GR. MED-FIN SA	Ay-BRN GR-		
MEN-MN SA	ND + PEA	On A PIECO	MAP, (HAND-
	TE DAMP, NO	DRAWN).	,
STAIN, NO OF	or,		
Sampler Signature: New Aule	Print Name: RENE AUBE		
Checked By:	Date:		

	SURFACE SOIL SAM	IPLING RECORI		
MACTEC 511 Congress Street, Portland Maine 04101	PROJECT NAME  CYTEC 2012 P  PROJECT NUMBER	HASE III	SAMPLE LOCATION AOC 906	DATE 7/31/12
Jii Congress Sites, Potualii Malik 04101	3616086024	SAMPLE TIME	START TIME  1035  SITE NAME/NUMBER	END TIME  1050  PAGE
SAMPLE INFORMATION	55-172	1040	SUBSTATION F	OF
TYPE OF SAMPLE	SAMPLE INTERVAL:	COLLECTION		DECON FLUIDS USED
DISCRETE COMPOSITE .	воттом 1 Г	S.S. SPLIT B.	ARREL	LIQUINOX DEIONIZED WATER
QC SAMPLES	TYPE OF MATERIAL:	S.S. SHOVEL		POTABLE WATER NITRIC ACID HEXANE
DUPLICATE O	ORGANIC SAND GRAVEL	S.S. BUCKET	,	METHANOL DI WATER N <sub>2</sub> PURGE OTHER
MS/MSD: YES	CLAY FILL	SAMPLE OBSE		D SKETCH SHOWN/ATTACHED
<b>№</b> №	OTHER	COLOR OTHER	WE -	YES NO
ANALYTICAL PARAMETERS				
POTES 2"5 MAPROCK A	METHOD NUMBER PRESERVATION METHOD  4° C  4° C  4° C  4° C	SKETCH SEE	HAND DRAW	SS-172 0 1 1 NM MAP
SAND, TRACE COR	AND, LITTLE MED	AND	AREA. BUT	DLES TAKEN
WELL GRADED.		AS	ONE XOZ	JAR.
Sampler Signature: Ribert Aulor	- Print Name RENE AUBE		79.07	
Checked By:	Date:			

	. SURFACE SOIL SAM	MPLING RECORD	,
MACTEC 511 Congress Street, Portland Maine 04101	PROJECT NUMBER	SAMPLE LOCATION START TIME	
	3616086024	SAMPLE TIME SITE NAME/NUM	1035 BER PAGE
SAMPLE INFORMATION	SS-173	1020 5118574	
TYPE OF SAMPLE	SAMPLE INTERVAL:	COLLECTION EQUIPMENT	DECON FLUIDS USED
DISCRETE COMPOSITE .	тор воттом <b>F7</b>	HAND AUGER/CORER  S.S. SPLIT BARREL  ALUMINIUM PAN	LIQUINOX DEIONIZED WATER POTABLE WATER
OC SAMPLES	TYPE OF MATERIAL:	S.S. SHOVEL HAND SPOON/SPATULA	NII'RIC ACID
DUPLICATE COMMENTAL DUPLICATE COMMENT	ORGANIC SAND GRAVEL CLAY	S.S. BUCKET OTHER  SAMPLE OBSERVATIONS	HEXANE METHANOL DI WATER N <sub>2</sub> PURGE OTHER
YES NO	FILL OTHER	COLOR OTHER	FIELD SKETCH SHOWN/ATTACHED  YES NO
ANALYTICAL PARAMETERS			
PARAMETER PCB	METHOD NUMBER  PRESERVATION METHOD  SOBOLUTION  METHOD  Y  C  FRESERVATION  METHOD  H  C  FRESERVATION  METHOD  H  C  FRESERVATION  METHOD  METHOD  H  C  FRESERVATION  METHOD  METHOD  H  C  FRESERVATION  METHOD  ME	VOLUME REQUIRED SAMPLE COLLECTED  18502  VEST  VOLUME REQUIRED  18502  VEST	QC SAMPLE BOTTLE ID NUMBERS  NO SS-173
NOTES 3" OF TRAPRO O-10" BRN FIN SAND, TRACE COR WELL GRADED. 10"-12" BRN FIN UNIFORM.	CX APRON ON TOP SAND LITTLE M SAND + FIN GRAV. SAND + SILT,	SEE HAND OF AREA. ETPH SAMPI ONE YOZ	DRAWN MAP BOTH PCB AND LES TAKEN AS JAR.
Sampler Signature: Rave Aule	C Print Name: RENE AUBE  Date:		-

	SURFACE SOIL SA	MPLING RECORD	
<b>MACTEC</b>	PROJECT NAME  CYTEC 2012	PHASE THE SAMPLE LOCATION	N 906 DATE 7/31/12
511 Congress Street, Portland Maine 04101	PROJECT NUMBER 3616086	START TIME	END TIME
•	SAMPLE ID	SAMPLE TIME SITE NAME/NUMB	ER BAGE
SAMPLE INFORMATION TYPE OF SAMPLE	SAMPLE INTERVAL:	COLLECTION EQUIPMENT	DECON FLUIDS USED
DISCRETE COMPOSITE .	TOP PT BOTTOM FT	HAND AUGER/CORER S.S. SPLIT BARREL	LIQUINOX DEIONIZED WATER
OC SAMPLES	TYPE OF MATERIAL:	ALUMINIUM PAN S.S. SHOVEL	POTABLE WATER NITRIC ACID
DUPLICATE NO EQ BLK	ORGANIC SAND GRAVEL	HAND SPOON/SPATULA S.S. BUCKET OTHER	HEXANE METHANOL DI WATER N2 PURGE OTHER
MS/MSD; VES NO	CLAY FILL OTHER	SAMPLE OBSERVATIONS ODOR COLOR OTHER	FIELD SKETCH SHOWN/ATTACHED  YES
ANALYTICAL PARAMETERS	4.70.4.		NO NO
PARAMETER PCB	METHOD NUMBER PRESERVATION METHOD 4°C	N VOLUME REQUIRED SAMPLE COLLECTED  1 × 8 02 / ES	QC SAMPLE BOTTLE ID NUMBERS 55-) 74
NOTES I" OF TRAPROCK O-3" BRN FIN S	•		DRAWN MAP
GRADED, DAMP.	) GRAVEL, WE		:
3"-12" ORANGE	BRN FIN SAND		,
LITTLE MED SAND			
DAMP.			
Sampler Signature: Rane Aules	Print Name: KENE AUBE		
Checked By:	Date:		

	SURFACE SOIL SAMP	LING RECORD		
MACTEC 511 Congress Street, Portland Maine 04101	PROJECT NAME CYTEC 2012 PHAS PROJECT NUMBER 36160 B60	DE JIL A	PLE LOCATION POC 906 RT TIME D9 30	DATE 7/3//12 END TIME 1000
SAMPLE INFORMATION TYPE OF SAMPLE	SAMPLE INTERVAL:	SAMPLE TIME SITE SUIL	NAME/NUMBER STATION F	PAGE OF OF
DISCRETE COMPOSITE .  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	TYPE OF MATERIAL:  ORGANIC SAND GRAVEL CLAY FILL OTHER	HAND AUGER/CORER S.S. SPLIT BARREL, ALUMINIUM PAN S.S. SHOVEL HAND SPOON/SPATUL S.S. BUCKET OTHER  SAMPLE OBSERVATIONS ODOR OTHER	A PROPERTY OF THE LOS	AQUINOX DEIONIZED WATER OTTABLE WATER WITRIC ACID WETHANOL DI WATER N2 PURGE DTHER SKETCH SHOWN/ATTACHED YES NO
PARAMETER  PARAMETER  PCB	METHOD NUMBER  PRESERVATION METHOD  4°C	VOLUME REQUIRED  / x Sez	SAMPLE QC COLLECTED VES NO	SAMPLE BOTTLE ID NUMBERS SS-175
TAN-COVERED ST	SAND, LITTLE , TRACE FIN SIRADED, DAMP. ABOVE EXCEPT LOR.		HAND DRAW	IN MAP
Sampler Signature: Auc fue of the Color of t	Print Name/ LNE /TUBE			

•	SURFACE SOIL SAM	PLING RECORD .	· ·
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: VES. RPA NO	PROJECT NAME  CYTE C 2012   PROJECT NUMBER  3616086024  SAMPLE ID SS-176  SAMPLE INTERVAL:  TOP BOTTOM  FT  TYPE OF MATERIAL:  ORGANIC SAND GRAVEL CLAY FILL OTHER	SAMPLE LOCAT  ACC START TIME  SITE NAME/NUM  COLLECTION EQUIPMENT  HAND AUGER/CORER  S.S. SPLIT BARREL  ALUMINIUM PAN  S.S. SHOVEL  HAND SPOON/SPATULA  S.S. BUCKET  OTHER  SAMPLE OBSERVATIONS  ODOR  COLOR  OTHER	906 7/31/12 END TIME 1055 105
MIX. 6-12"BRN FIN S SAND, TRACE CO WELL GRADED.	IN SAND + GRAVE	ETPH-SAM ONE BOZ	COLLECTED SAMPLE BOTTLE ID NUMBERS NO SS-176 NO A  DRAWN MAP BOTH PCB AND PLES TAKEN AS TAR.
Sampler Signature: There Dules Checked By:	Print Name: NENE AUBE	-	

	SURFACE SOIL SAM	PLING RECORD		
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE.  OC SAMPLES	PROJECT NAME	SAMPLE TIME  W30  COLLECTION  HAND AUGEI  S.S. SPLIT BA  ALUMINIUM  S.S. SHOVEL  HAND SPOON	SAMPLE LOCATION  AOC 90 6  START TIME  11 20  SITE NAME/NUMBER  SUBSTATION F  EQUIPMENT  D  R/CORER  RREL  PAN	DATE 7/31/12 END TIME 1/55 PAGE OF LOF  ECON FLUIDS USED  LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE
DUPLICATE NO EQ BLK NO MS/MSD; YES NO ANALYTICAL PARAMETERS	ORGANIC SAND GRAVEL CLAY FILL OTHER	S.S. BUCKET OTHER  SAMPLE OBSER ODOR COLOR OTHER	VATIONS FIELD	METHANOL DI WATER N2 PURGE OTHER  DISKETCH SHOWN/ATTACHED YES NO
PCB ETPT	METHOD NUMBER PRESERVATION METHOD  Y C T ETPH  PRESERVATION METHOD	VOLUME REQUIRE	COLLECTED COLLECTE	SAMPLE BOTTLE ID NUMBERS  55 - 177
2"5 TRAPROCK O-12" BRN FIN ; SAND, TRACE CO GRAVEL, LITLE ! WELL GRADED, D AUGER THROUGH	COR GAND + FIN COR GARAVEL.	SEE OF ETS AS	HAND DRAW AREA, BOT H SAMPLES ONE BOZ	FUR AND
Sampler Signature: Rani Julic Checked By:	Print Name: RENE AUBE			

	SURFACE SOIL SAM	PLING RECORD	
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	PROJECT NAME  TYPE OF MATERIAL:  ORGANIC SAND GRAVEL CLAY FILL OTHER	START TIME	106 7/31/12 END TIME 15:35
ANALYTICAL PARAMETERS  PARAMETER  PCBS	METHOD NUMBER PRESERVATION METHOD  8082 4 C	VOLUME REQUIRED SAMPLE COLLECTED	QC SAMPLE BOTTLE ID NUMBERS SS-/79
4 inches stone aprin. 6-4 inches Brown F Med Sand; Trace graded.	Then start log.  sand: little	See Hand D	rawn Mapof Area.
4"-10" Brown F Sand. Poor	ly graded.		
10"-12" Orange Little MS	brown F sand; and Poorly graded.		
Sampler Signature: Rech Welfak Checked By:	Print Name: Rick Walzak  Date:		

	SURFACE SOIL SAM	MPLING RECORD	
MACTEC 511 Congress Street, Portland Maine 04101	PROJECT NAME  CYTEC 2012 P  PROJECT NUMBER  36/608602  SAMPLE ID  SC-180	SAMPLE LOCATI  ACC START TIME  SAMPLE TIME  SITE NAME/NUM  SUDS LET	906 7/31/12 5:45 END TIME 16:15
SAMPLE INFORMATION  TYPE OF SAMPLE	SAMPLE INTERVAL:	COLLECTION EQUIPMENT	DECON FLUIDS USED
DISCRETE COMPOSITE .  OC SAMPLES	TOP D H	HAND AUGER/CORER S.S. SPLIT BARREL ALUMINIUM PAN S.S. SHOVEL HAND SPOON/SPATULA	LIQUINOX DEJONIZED WATER POTABLE WATER NITRIC ACID HEXANE
DUPLICATE EQ BLK  MS/MSD: YES NO	ORGANIC  SAND  GRAVEL  CLAY  FILL  OTHER	S.S. BUCKET OTHER  SAMPLE OBSERVATIONS ODOR COLOR OTHER	METHANOL DI WATER N2 PURGE OTHER  FIELD SKETCH SHOWN/ATTACHED  YES NO
ANALYTICAL PARAMETERS  PARAMETER	METHOD NUMBER PRESERVATION	VOLING PROUPED SAMPLE	QC SAMPLE BOTTLE ID
PCBs	METHOD NUMBER  8082  Y C	VOLUME REQUIRED  Jal  SKETCH	QC SAMPLE BOTTLE ID NUMBERS SS - 1200
4 inch gravel ap	rin. Then start log.		MAO
0-4" Sand x F	aravel	see yard arady	mag.
5.0100 1	Frand; Little Trace F+ C gravel		
j			
Sampler Signature: Rick Waysb. Checked By:	Print Name: Rick Walzak.		

	SURFACE SOIL SAM	MPLING RECORD	
SAMPLE INFORMATION TYPE OF SAMPLE	PROJECT NAME  CYTEC 2012   PROJECT NUMBER  36/6 0860  SAMPLE ID  SAMPLE INTERVAL:	SAMPLE LOCATION START TIME SAMPLE TIME SITE NAME/NUME SUDSTAT	906 8/3//2 35 END TIME 1/:55 BER PAGE 1 OF 1
DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO  ANALYTICAL PARAMETERS	TOP Dinch BOTTOM 3 inch  TYPE OF MATERIAL:  ORGANIC SAND C GRAVEL CLAY FILL OTHER	HAND AUGER/CORER S.S. SPLIT BARREL ALLUMINIUM PAN S.S. SHOVEL HAND SPOON/SPATULA S.S. BUCKET OTHER  SAMPLE OBSERVATIONS ODOR COLOR OTHER	DECON FLUIDS USED  LIQUINOX DEFONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL DI WATER N, PURGE OTHER  FIELD SKETCH SHOWN/ATTACHED  YES NO
PARAMETER PCBs  Notes  O to 3 inches	METHOD NUMBER  8082  4.C  Winder linehof  gravel aprin	VOLUME REQUIRED COLLECTED COLLECTED	QC SAMPLE BOTTLE ID NUMBERS  No SS-181  With measurement
Trace M sand			
Sampler Signature: Rick Walzak Checked By:	Print Name: Rick Walzal	K	

是在1998年,1998年,1998年	. SURFACE SOIL SAM	IPLING RECORD	
MACTEC 511 Congress Street. Portland Maine 04101	PROJECT NAME  CYTEC 2012   PROJECT NUMBER  3616 08 6024  SAMPLE ID	START TIME	8/3//2 55 END TIME 12:15
SAMPLE INFORMATION TYPE OF SAMPLE	SAMPLE INTERVAL:	12:05 Substation	
DISCRETE COMPOSITE .	TOP Dinch BOTTOM BINCH	HAND AUGER/CORER S.S. SPLIT BARREL ALUMINIUM PAN	LIQUINOX DEIONIZED WATER POTABLE WATER
OC SAMPLES  DUPLICATE  EQ BLK  MS/MSD:  MS/MSD:  NO	OBGANIC SAND GRAVEL CLAY FILL OTHER	S.S. SHOVEL HAND SPOON/SPATULA S.S. BUCKET OTHER  SAMPLE OBSERVATIONS ODOR COLOR OTHER	NITRIC ACID HEXANE METHANOL DI WATER N2 PURGE OTHER  FIELD SKETCH SHOWN/ATTACHED  YES NO
ANALYTICAL PARAMETERS			
PARAMETER PCBS	METHOD NUMBER 8082 PRESERVATION METHOD 4°C	VOLUME REQUIRED    Jar   SAMPLE COLLECTED     Jar   SKETCH   SAMPLE COLLECTED     SAMPLE COLL	COLLECTED SAMPLE BOTTLE ID NUMBERS  No S.S-182  With measurements
1/2 inch gravel then 0-3 inches - Bro F gravel;	own Fsand; Little Trace Msand.	•	
Well graded			
Sampler Signature: Rick Walfare Checked By:	Print Name: Rick Walzak  Date:		

	SURFACE SOIL SAM	PLING RECORD	
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	PROJECT NAME  PROJECT NUMBER  36/6086024  SAMPLE ID  SS - /83  SAMPLE INTERVAL:  TOP BOTTOM 3 DOCK  TYPE OF MATERIAL:  ORGANIC SAND GRAVEL CLAY FILL OTHER	START TIME	06 8/3//2 END TIME 12:35 PAGE
ANALYTICAL PARAMETERS			
	K F Sand; Some Trace M Sand.  aded.	VOLUME REQUIRED SAMPLE COLLECTED  Jar  SKETCH  See Field map &	COLLECTED SAMPLE BOTTLE ID NUMBERS  SS-183  With measure ments
			· · · · · · · · · · · · · · · · · · ·
Sampler Signature: Rick Wafak	Print Name: Rick Walzak		
Checked By:	Date:		

	SURFACE SOIL SAM	IPLING RECORD .	E F Dog Union
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	PROJECT NAME  CYTEC 2012  PROJECT NUMBER  36/6086024  SAMPLE ID  SS-184  SAMPLE INTERVAL:  TOP  O 100  TYPE OF MATERIAL:  ORGANIC  SAND  GRAVEL  CLAY  FILL  OTHER	SAMPLE LOCATION ACCURATE SAMPLE TIME  SAMPLE TIME  SITE NAME/NUMB  SUDSTATION  COLLECTION EQUIPMENT  HAND AUGER/CORER  S.S. SPLIT BARREL  ALUMINIUM PAN  S.S. SHOVEL  HAND SPOON/SPATULA  S.S. BUCKET  OTHER  SAMPLE OBSERVATIONS  ODOR  COLOR  OTHER	906 8/3/12 2:35 END TIME 12:50
ANALYTICAL PARAMETERS			- NO
	k brown Fine gravel; Trace Pell graded.	SKETCH See Field Map	QC SAMPLE BOTTLE ID NUMBERS SS-/84
Sampler Signature: Rick Wagak	Print Name: Rick Walzak		
Checked By:	Date:		

SURFACE SOIL SAMPLING RECORD				
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  QC SAMPLES  DUPLICATE EQ BLK  MS/MSD: VES NO	PROJECT NAME  CYTEC 2012  PROJECT NUMBER  36/6 08 60  SAMPLE ID  SAMPLE INTERVAL:  TOP BOTTOM  TYPE OF MATERIAL:  ORGANIC SAND GRAVEL CLAY FILL OTHER	SAMPLE LOCA' START TIME START TIME SITE NAME/NUI SITE NAME	906 8/3/12 60 END TIME 13:15	
ANALYTICAL PARAMETERS			NO	
	un Fine Sand; Gravel.	SKETCH See Fieldmap as	ocollected Numbers SS-185  with measurements.	
Sampler Signature: Rick Walfah	Print Name: ///// WafZa			
Checked By:	Date:			

。这么是其 <b>是</b> 的意思。这是是 <b>有</b> 一次,	SURFACE SOIL SA	MPLING RECORD		CALL TO THE
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	PROJECT NAME  CYTEC 2018  PROJECT NUMBER  36/608602  SAMPLE ID  SAMPLE INTERVAL:  TOP  BOTTOM  TYPE OF MATERIAL:  ORGANIC  SAND  GRAVEL  CLAY  FILL  OTHER  OTHER	SAMPLE TIME  ST.  COLLECTION EQUIP  HAND AUGER/CORE S.S. SPLIT BARREL ALUMINIUM PAN S.S. SHOVEL HAND SPOON/SPAT S.S. BUCKET OTHER  SAMPLE OBSERVATIO ODOR COLOR	TULA DNS	END TIME PAGE OF  DECON FLUIDS USED  LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL DI WATER N <sub>3</sub> PURGE OTHER  D SKETCH SHOWN/ATTACHED
ANALYTICAL PARAMETERS  PARAMETER  PARAMETER	METHOD NUMBER PRESERVATION METHOD 4°C		SAMPLE OC COLLECTED COLLECTED	SAMPLE BOTTLE ID NUMBERS SS-186
TRACE MED - COR CARADED, MOIST 6"-1,0' BRN FINS	ND, LITTLE GRAVEL SAND. WELL ; SAND, LITTLE MED		drawn r	rapotarca.
SAND, WELL CARA POORLY POTENTIAL DARK	STAINING			
Sampler Signature: Rick Ways	Print Name: Rick Walzak  Date:			

	SURFACE SOIL SAM	PLING RECORD .	
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	PROJECT NAME  CYPEC 2012 P PROJECT NUMBER  36 16 08 80 24  SAMPLE ID  SAMPLE INTERVAL:  TOP BOTTOM  TYPE OF MATERIAL:  ORGANIC SAND GRAVEL CLAY FILL OTHER	START TIME	END TIME  END TIME  14:50  DECON FLUIDS USED  LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL DI WATER N2 PURGE OTHER  FIELD SKETCH SHOWN/ATTACHED  YES
7			NO
NOTES 2 INCHES TRAP	METHOD NUMBER  8082  PRESERVATION METHOD 4°C	VOLUME REQUIRED SAMPLE COLLECTED  JX 802 YES  SKETCH SEE HANDIANEA	QC SAMPLE BOTTLE ID NUMBERS SS-187
SAND, TRACE A fOORLY GRADED,	MED + COR SAND,		
Checked By:	Date:		

	SURFACE SOIL SA	MPLING RECORD	
SAMPLE INFORMATION TYPE OF SAMPLE	PROJECT NAME  CYTEC 2012  PROJECT NUMBER  36160860  SAMPLE ID  SAMPLE INTERVAL:	START TIME	906 7/30/12 END TIME 15,05
DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	TOP BOTTOM  TYPE OF MATERIAL:  ORGANIC SAND GRAVEL CLAY FILL OTHER	HAND AUGER/CORER S.S. SPLIT BARREL ALUMINIUM PAN S.S. SHOVEL HAND SPOON/SPATULA S.S. BUCKET OTHER  SAMPLE OBSERVATIONS ODOR COLOR OTHER	LIQUINOX DEKONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL DI WATER N2 PURGE OTHER  FIELD SKETCH SHOWN/ATTACHED  YES NO
ANALYTICAL PARAMETERS  PARAMETER  PARAMETER  NOTES	METHOD NUMBER  PRESERVATION METHOD  4°C	VOLUME REQUIRED COLLECTED  A Soz YES	QC COLLECTED  NUMBERS  SS-188
2 INCHES TRAP ON TOP. O-10" BRN FIN S. SAND, TRACE FIN GRAVEL DAMP. 10"-1' SWITCH TO	AND, LITTLE MED E COR SAND + L. WELL GRADED,	OF ANGA.	RAWN MAP
Sampler Signature: Rick Wayak	Print Name: Rick Walzak  Date:		

	SURFACE SOIL SAM	IPLING RECORD	
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	PROJECT NAME  CYTEC 2012  PROJECT NUMBER  361608602  SAMPLE ID  SAMPLE INTERVAL:  TOP FT  BOTTOM FT  TYPE OF MATERIAL:  ORGANIC  SAND  GRAVEL  CLAY  FILL  OTHER	SAMPLE LOCATION  START TIME  START TIME	906 7/30/12 END TIME 15:20 ER PAGE
		OTHER **	NO YES
O-10" BRN FIN MED SAND, TRA FIN GRAVEL, WE DAMP. 10"-1' SWITCH TO COLOR, ALL ELSE ABOVE.	AL GRADED,  ORANGE BRN  15 SAME AS	SEE HAND DO	QC SAMPLE BOTTLE ID NUMBERS SS-189
Sampler Signature: Rick Wages Checked By:	Print Name: Kick Walzak		

	SURFACE SOIL SAM	IPLING RECORD	
SAMPLE INFORMATION TYPE OF SAMPLE  DISCRETE COMPOSITE  OC SAMPLES  DUPLICATE EQ BLK  MS/MSD: YES NO	PROJECT NAME  CYTEC 2012  PROJECT NUMBER  3616086024  SAMPLE ID  SAMPLE INTERVAL:  TOP  FT  BOTTOM  ORGANIC  SAND  GRAVEL  CLAY  FILL  OTHER	SAMPLE LOCATIONS START TIME  1372 SITE NAME/NUME  15725  COLLECTION EQUIPMENT  HAND AUGER/CORER  S.S. SPLIT BARREL  ALUMINIUM PAN  S.S. SHOVEL  HAND SPOON/SPATULA  S.S. BUCKET  OTHER  SAMPLE OBSERVATIONS  ODOR COLOR OTHER	7/30/12 END TIME 15:40
ANALYTICAL PARAMETERS  PARAMETER  PCB	METHOD NUMBER  PRESERVATION METHOD  4°C	VOLUME REQUIRED SAMPLE COLLECTED  1 x Boz YES	QC SAMPLE BOTTLE ID NUMBERS  SS-190
NOTES 3 INCHES OF APRON ON TO, O-1.0 BRN FINS, SAND, TRACE CO CSRAVEL, WELL	TRAPROCK  AND, LITTLE MED  OR SAND + FIN  SARADED, MOIST.	OF AREA.	DRAWN MAP
Sampler Signature: Ruck Wayak Checked By:	Print Name: Rick Whizak Date:	K	

	SURFAC	E WATER / SEDIME	ENT SAMPLE		
amec <sup>©</sup>	1090 Elm Street, Suite 201 Rocky Hill, CT 06067	PROJECT / SI JOB & TASK I		WALLINGFO 3024.10:01	RD, CT.  DATE \$13/13
FIELD SAMPLE NUMBER	SD-41 (0-0.5 DUP, MS. MSD	ACTIVITY TIME STAF	10 1	ND 1255 HUBE	BOTTLE TIME 1235
SURFACE WATER DATA	<del></del>	<u>-</u>	QUIPMENT USED	TYPE OF SURFACE	WATER
WATER DEPTH AT LOCATION  DEPTH OF SAMPLE FROM SURFACE	SPEC. COND FT D.O.	mS/CM	BEAKER PACS BOMB PERISTALTIC PUMP	STREAM/ RIV	/ER DECON FLUIDS USED:
TURBIDITY	DEG C SALINITY ORP	% mV	FILTER/ NUMBER		
РН	UNITS	ASSOCIATED TRIP BLANK		RINSATE BLANK	
SEDIMENT DATA		ASSOCIATED TRIP BLANK	NA_	RINSATE BLANK	NA
TYPE OF SAMPLE DISCR COMP SAMPLE OBSERVATIONS ODOR MED COLOR MED	OSITE SA GF GR GR GOT	IGANIC	PMENT FOR COLLECTION  HAND CORER  S.S. SPOON  ALUMINIUM PAN  DREDGE  DTHER HAND AU	DECON FLUIDS USED  DI WATER N2 PURGE  POTABLE WATER  LIQUINOX  OTHER  OTHER	
ANALYTICAL PARAMETER	RS - WATER  METINUM  NUM		ED PRESERVA METHO		
	AB'S MET NUM	BER FILTER -N	PRESERVA METHIC METHIC		RED COLLECTED
NOTES SAMPLE (DUP, M Signed: Rome	= ID: SD-41 5, MSD) P. Nufut Chec	SAN (IN)		ERVAL: O- OLD SUBSTA	-0.5' 9710N F VAULT)

SURFACE WATER / SEDIMENT SAMPLE					
amec <sup>©</sup>	1090 Elm Street, Suite 20 Rocky Hill, CT 06067	PROJECT / SIT JOB & TASK NO		JAUING FORE	3/3/13
FIELD SAMPLE NUMBER	50-42 (0-0,5	ACTIVITY TIME START	1130 END	1205 BOTTI	E TIME 1145
QC SAMPLES COLLECTED	NONE	SAMPLE COLLECTED BY	R. AUB	?E	
SURFACE WATER DATA		EQ	UIPMENT USED	TYPE OF SURFACE WATER	
WATER DEPTH AT LOCATION	SPEC. CONE FT D.O.	mS/CM	BEAKER	STREAM/ RIVER LAKE/ POND	DECON FLUIDS USED:
FROM SURFACE	FT OALBUTY	PPM	PERISTALTIC PUMP	SEEP	POTABLE WATER
TEMPERATURE	DEG C SALINITY	%	FILTER/ NUMBER	MARSH	
TURBIDITY	NTU ORP	mV	OTHER-	OTHER	
PH	UNITS	ASSOCIATED TRIP BLANK		RINSATE BLANK	
SEDIMENT DATA		ASSOCIATED TRIP BLANK	NA	RINSATE BLANK	NA
DEPTH OF SEDIMENT	TYPE OF SEDIM	EQUIPM	ENT FOR COLLECTION DEC	CON FLUIDS USED	
TYPE OF SAMPLE DISC			ND CORER	DI WATER N2 PURGE	
	MPOSITE S		. SPOON	POTABLE WATER	
SAMPLE OBSERVATIONS		<b>=</b>	<del></del>	LIQUINOX	
ODOR NON	BRN I	<u> </u>	EDGE HER <u>HAND AUG</u> E	OTHER	
OOLOIK # 1221		Ther O	TER / JEPVID 8 TURE C		
ANALYTICAL PARAMET	ERS - WATER				
		THOD MBER FILTERED	PRESERVATION METHOD	VOLUME <u>REQUIRED</u>	SAMPLE <u>COLLECTED</u>
ANALYTICAL PARAMET	ME	THOD	PRESERVATION		SAMPLE
X TOTAL	PCB'S SX	MBER FILTEREI SB2 -NA-	METHOD G	_ /x 402 A3	COLLECTED   COLLECTED
	•				
			-		
NOTES SAMOUR	- TD , CD -1	10 <0	MOIE ME	OVAL I A	
JUNIACE	F. Sule Che			OLD SUBSTA	
1	P 10-			CCD JUBSIA,	INVITABLE
Signed: / ( Prad )	1 Auce Che	cked: WV			

	CONCRETE CORE/CHIP SAM	IPLE FIELD DATA	RECORD	
amec <sup>©</sup>	PROJECT NAME & LOC.		SAMPLE LOCATION	DATE
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	ALLNEX - WALLINGFOR PROJECT NUMBER	D, CT.	ELEC SUBSTATION "F" START TIME	7/30/13
	3616086024,10,01		1500	END TIME 1645
SUNNY, WARM, BREEZ) GENERAL INFORMATION	CC-9(1-2")	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE
[4]	ORS OR EXPOSED TO ELEMENTS X	DOES CONCRETE APPEAR OF HAVE ANY STANDING OIL	<u> </u>	IS A VERTICLE SURFACE
TYPE OF SAMPLES / OC COLLECTED  GRAB  COMPOSITE  CHIP  MS  DUST  MSD	SAMPLE INTERVAL  TOP BOTTOM	POWER TOOLS US  CORE DRILL  BARREL DIA:  LUBE WATER:  POTABLE	НАММ	IER DRILL BIT SIZE(S): 0,5" in.
SAND PEA-GRAVEL  SMALL BLUE-STONE LARGE GRAVEL  LARGE TRAP-ROCK  NO	TAINING PRESENT?  COLOR: LITE BROWN  AINT PRESENT?	OTHER CORED CLEAN THE NO RE-BAR PRESENT? NO CORE LENGTH:	U CONCRETE? ELECT	E-BIT (WIDTH):inBITSTAR-BIT
SURFACE PAINT INCLUDED IN SAMPLE?  NO YES N/A	COLORS/LAYERS (TOPCOAT TO BASE):		HAND TOOLS USED HEXANE METHANOL	ALUMINUM PAN S.S. BOWL S.S. HAND SPOON / SPATULA
ANALYTICAL PARAMETERS  PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION METHOD 8082 4°C	VOLUME/JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION CC-9 (1-2")
O-1" DRILLED WI BIT DURING, PRE SAMPLING, EVEL	TH 0,75" EVIOUS	SEE SI	AMPLE PLAN	FIGURE.
Sampler Signature: Rano Swlet Checked By:	Print Name: RENE AUBC Date: F-5-13			

	CONCRETE CORE/CHIP SAM	IPLE FIELD DATA	A RECORD	
amec <sup>©</sup>	PROJECT NAME & LOC.  ALLNEX - WALLINGFOR		SAMPLE LOCATION ELEC SUBSTATION "F"	DATE 7/23/12
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024.10.01	5,01.	START TIME	END TIME
WEATHER SUNNY, WARM, BREEZ	SAMPLE ID	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF
	OORS OR EXPOSED TO ELEMENTS  OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR HAVE ANY STANDING O	Z \	IS A VERTICLE SURFACE
TYPE OF SAMPLES / OC COLLECTED  GRAB COMPOSITE CHIP MS MSD  AGGREGATE IN CONCRETE SURFACE S	SAMPLE INTERVAL  TOP "  BOTTOM 2"  TAINING PRESENT?	POWER TOOLS U  CORE DRILL  BARREL DIA: LUBE WATER  POTABLE  OTHER	in. DRILL	IER DRILL BIT SIZE(S): 0,5" in.  HAMMER (TYPE / BIT):
SAND PEA-GRAVEL YES  SMALL BLUE-STONE LARGE GRAVEL LARGE TRAP-ROCK OTHER  NO YES	COLOR: <u>LITE BROWN</u> AINT PRESENT?  COLORS / LAYERS (TOPCOAT TO BASE):	CORED CLEAN THE	YES	E-BIT (WIDTH);inBIT STAR-BIT
SURFACE PAINT NO YES N/A	NA	LIQUINOX DEIONIZED W POTABLE WA	HEXANE METHANOL	ALUMINUM PAN S.S. BOWL S.S. HAND SPOON / SPATULA
ANALYTICAL PARAMETERS  PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD 8082 4°C	VOLUME / JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION  C-10(1-2")
O-1" DRILLED BIT DURING F SAMPLING ET	NEVIOUS	SEE S	SAMPLE PLA	IN FIGURE,
Sampler Signature: Ang Aule Checked By: May	Print Name: RENE AUBE  Date: F. F. 13			

	CONCRETE CORE/CHIP SAM	APLE FIELD DATA	A RECORD	
amec <sup>©</sup>	PROJECT NAME & LOC. ALLNEX - WALLINGFOI	RD, CT.	SAMPLE LOCATION ELEC SUBSTATION "F"	DATE 7/30/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024,10.01		START TIME	END TIME
WEATHER SUNNY, WARM BREEZY GENERAL INFORMATION	CC-11 (1-2")	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF
CONCRETE IS DRY CONCRETE IS OUTDO	ORS OR EXPOSED TO ELEMENTS OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR O	<u> </u>	IS A VERTICLE SURFACE
SAND PEA-GRAVEL YES SMALL BLUE-STONE	SAMPLE INTERVAL TOP J" BOTTOM 2"  TAINING PRESENT?  COLOR: LITE BROWN  AINT PRESENT?  COLORS/LAYERS (TOPCOAT TO BASE):	POWER TOOLS U  CORE DRILL  BARREL DIA: LUBE WATER: POTABLE OTHER CORED CLEAN THE NO RE-BAR PRESENT? NO CORE LENGTH: DECON FLUIDS /	in. DRILL  JACK F  RU CONCRETE? ELECT  YES	BIT SIZE(S):
SURFACE PAINT NO NO YES N/A	NA	LIQUINOX DEIONIZED W POTABLE WA	HEXANE METHANOL	ALUMINUM PAN S.S. BOWL S.S. HAND SPOON / SPATULA
ANALYTICAL PARAMETERS  PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD 8082 4°C	VOLUME / JARS REQUIRED 1 x 40z AG	SAMPLE QC COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION CC-11(1-2")
O-1" DRILLED W BIT DURING PR SAMPLING EV	LEVIOUS'	SEE SM	AMPLE PLAN	FIGURE.
an a				
Sampler Signature: There's Auber Checked By:	Print Name: PENE AUBE Date: F. F. 13	=		

	CONCRETE CORE/CHIP SAM	MPLE FIELD DATA	A RECORD	
amec <sup>©</sup>	PROJECT NAME & LOC.  ALLNEX - WALLINGFO	RD CT	SAMPLE LOCATION  ELEC SUBSTATION "F"	DATE \$ 15/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024.10.01		START TIME	END TIME
WEATHER SUNNY, WARM, WINDY	SAMPLE ID 0	. CAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF
	OORS OR EXPOSED TO ELEMENTS OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR ( HAVE ANY STANDING OI	<del>E-y</del>	IS A VERTICLE SURFACE
SAND PEA-GRAVEL  SMALL BLUE-STONE	SAMPLE INTERVAL TOP " BOTTOM 5"  TAINING PRESENT?  COLOR:  AINT PRESENT?  COLORS / LAYERS (TOPCOAT TO BASE):	POWER TOOLS U  CORE DRILL  BARREL DIA: LUBE WATER: POTABLE OTHER CORED CLEAN THI NO RE-BAR PRESENT? NO CORE LENGTH:	In. DRILL  RU CONCRETE?  YES  YES  YES  POINT  CHIEF	BIT SIZE(S):in.  HAMMER (TYPE / BIT):  PRICCOMPRESSED AIR  S-BIT (WIDTH):in.  BITSTAR-BIT
SURFACE PAINT INCLUDED IN SAMPLE?  YES N/A	NA	LIQUINOX DEIONIZED W POTABLE WA	ATER HEXANE METHANOL	ALUMINUM PAN S.S. BOWL S.S. HAND SPOON / SPATULA
PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD  8082 4°C	VOLUME / JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION CC-12 (O-O,5")
NOTES		SKETCH SEE SA	AMPLE PLAN	FIGURE.
			* .	
0 · - 1 A-				
Sampler Signature: Name Aule	Print Name: RENE AUBE			

	CONCRETE CORE/CHIP SAM	MPLE FIELD DATA	A RECORD	
amec <sup>©</sup>	PROJECT NAME & LOC.  ALLNEX - WALLINGFOR	RD, CT.	SAMPLE LOCATION  ELEC SUBSTATION "F"	DATE 8/5/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024.10.01		START TIME	END TIME
SUNNY, WARM, WINDY	SAMPLE ID CC-12 (0,5-1.0"	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF
	OORS OR EXPOSED TO ELEMENTS OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR HAVE ANY STANDING O	<b>A</b>	E IS A VERTICLE SURFACE
SAND PEA-GRAVEL YES SMALL BLUE-STONE	SAMPLE INTERVAL TOP 5,5" BOTTOM 1,0"  STAINING PRESENT?  COLOR: PAINT PRESENT?  COLORS/LAYERS (TOPCOAT TO BASE):	POWER TOOLS U  CORE DRILL  BARREL DIA: LUBE WATER  POTABLE OTHER  CORED CLEAN TH  NO  RE-BAR PRESENT? NO  CORE LENGTH: DECON FLUIDS / LIQUINOX DEIONIZED W POTABLE WA	In. DRILL  JACK  RU CONCRETE?  YES  YES  YES  OTHER  HAND TOOLS USED  HEXANE  ATER  METHANOL	E-BIT (WIDTH): in.
ANALYTICAL PARAMETERS  PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD  8082 4°C	VOLUME/JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION  CC-12 (0,5-),0
NOTES		SEE SA	IMPLE PLAN	FIGURE
Sampler Signature, Respect Andrew	Print Name: RENE AUBU	or the state of th		

	CONCRETE CORE/CHIP SAM	APLE FIELD DATA	RECORD	
amec 1000 Flow Street Style 201 Parket Hill Co. of 1000	PROJECT NAME & LOC.  ALLNEX - WALLINGFOR	ND, CT.	SAMPLE LOCATION ELEC SUBSTATION "F"	DATE 8/1/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024,10,01		START TIME	END TIME
CLOUDY, WARM, WINDY	SAMPLE ID CC-13(0-0.5")	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF
<del>  [                                   </del>	OORS OR EXPOSED TO ELEMENTS  DR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR O	-1	IS A VERTICLE SURFACE
TYPE OF SAMPLES / OC COLLECTED  GRAB COMPOSITE CHIP MS DUST MSD  AGGREGATE IN CONCRETE SURFACE S  SAND PEA-GRAVEL  YES	SAMPLE INTERVAL  TOP "  BOTTOM O.5"  TAINING PRESENT?  COLOR:	POWER TOOLS US  CORE DRILL  BARREL DIA: LUBE WATER: POTABLE OTHER CORED CLEAN THR	in. DRILL	ER DRILL.  BIT SIZE(S):
SMALL BLUE-STONE  LARGE GRAVEL  LARGE TRAP-ROCK  OTHER  SURFACE P  NO  YES	AINT PRESENT?  COLORS / LAYERS (TOPCOAT TO BASE):	RE-BAR PRESENT? NO CORE LENGTH:	YES SPADE POINT-CHISET	<u> </u>
SURFACE PAINT INCLUDED IN SAMPLE? YES N/A	NA	LIQUINOX DEIONIZED W. POTABLE WAT	h	ALUMINUM PAN S.S. BOWL S.S. HAND SPOON / SPATULA
ANALYTICAL PARAMETERS  PARAMETER NAME  TOTAL PCB'S	METHOD PRESERVATION NUMBER METHOD  8082 4°C	VOLUME / JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION
NOTES		SEE S	AMPLE PLAN	FIGURE,
			·	
Sampler Signature: Rever Dula	Print Name: RENE AUBE			
Checked By WWW	Date: P.P.13			

	CONCRETE CORE/CHIP SAM	APLE FIELD DATA	A RECORD	
amec <sup>©</sup>	PROJECT NAME & LOC. ALLNEX - WALLINGFOR	RD, CT.	SAMPLE LOCATION  ELEC SUBSTATION "F"	DATE SIII3
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024,10.01		START TIME	END TIME
CLOUDY, WARM, WINDY	SAMPLE ID CC-13(0,5-1,0")	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF
	OORS OR EXPOSED TO ELEMENTS  DR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR HAVE ANY STANDING O	<u>P</u>	IS A VERTICLE SURFACE
SAND PEA-GRAVEL YES SMALL BLUE-STONE	SAMPLE INTERVAL  TOP 0,5 77  BOTTOM 1,0 77  TAINING PRESENT?  COLOR:  AINT PRESENT?  COLORS / LAYERS (TOPCOAT TO BASE):	POWER TOOLS L  CORE DRILL  BARREL DIA: LUBE WATER POTABLE OTHER CORED CLEAN TH NO RE-BAR PRESENT: NO CORE LENGTH: DECON FLUIDS. LIQUINOX DEIONIZED W	HAMMI DRILL I  JACK H  RU CONCRETE? ELECTI  YES  YES POINT- CHISEL  HAND TOOLS USED HEXANE METHANOL	AMMER (TYPE / BIT): RIC COMPRESSED AIR BIT (WIDTH): in. BIT STAR-BIT
ANALYTICAL PARAMETERS  PARAMETER NAME  TOTAL PCB'S	METHOD PRESERVATION NUMBER METHOD 8082 4°C	VOLUME/JARS REQUIRED I x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION
NOTES		SEE SI	AMPLE PLAN	FIGURE.
- A	·			·
Sampler Signature All Checked By:	Print Name: TENE AUBE			

	CONCRETE CORE/CHIP SAM	APLE FIELD DATA	A RECORD	
amec <sup>©</sup>	PROJECT NAME & LOC. ALLNEX - WALLINGFOR	ND, CT.	SAMPLE LOCATION ELEC SUBSTATION "F"	DATE 8/5/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024,10.01		START TIME	END TIME 1225
SUNNY, WARM, WINDY GENERAL INFORMATION	SAMPLE ID CC-14(0-0,5	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE J OF J
CONCRETE IS DRY CONCRETE IS OUTDO	OORS OR EXPOSED TO ELEMENTS  OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR HAVE ANY STANDING OF	<del>   </del>	IS A VERTICLE SURFACE
TYPE OF SAMPLES / OC COLLECTED  GRAB CORE DUP COMPOSITE CHIP MS DUST MSD	SAMPLE INTERVAL TOP 0" BOTTOM 0,5"	POWER TOOLS U  CORE DRILL  BARREL DIA: LUBE WATER  POTABLE	in. DRILL	ER DRILL BIT SIZE(S):in.
SAND PEA-GRAVEL YES SMALL BLUE-STONE	TAINING PRESENT?  COLOR:AINT PRESENT?	OTHER CORED CLEAN THNO RE-BAR PRESENT?NO	RU CONCRETE?ELECT	-BIT (WIDTH):inBITSTAR-BIT
OTHER YES  SURFACE PAINT NO INCLUDED IN SAMPLE?  N/A	COLORS / LAYERS (TOPCOAT TO BASE):	DECON FLUIDS / LIQUINOX DEIONIZED W POTABLE WA	HAND TOOLS USED HEXANE ATER METHANOL	ALUMINUM PAN S.S. BOWL S.S. HAND SPOON / SPATULA
ANALYTICAL PARAMETERS  PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD 8082 4°C	VOLUME/JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION
NOTES		SEE SA	IMPLE PLAN	FIGURE.
Sampler Signature: Hope Sules Checked By: Mul	Print Name: RENE AUBE Date: 8. P. 13			

	CONCRETE CORE/CHIP SA	MPLE FIELD DATA	A RECORD	
amec <sup>⊕</sup>	PROJECT NAME & LOC.  ALLNEX - WALLINGFO	ORD, CT.	SAMPLE LOCATION ELEC SUBSTATION "F"	DATE \$/5/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024.10.0	1	START TIME	END TIME
SUNNY, WARM, WINDY GENERAL INFORMATION	SAMPLE ID CC-14(0,5-),	SAMPLE TIME 12.35	AOC NAME/NUMBER AOC 906	PAGE 1 OF 1
CONCRETE IS DRY CONCRETE IS OUTDO	DORS OR EXPOSED TO ELEMENTS OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR HAVE ANY STANDING OF	- <del></del>	E IS A VERTICLE SURFACE
SAND PEA-GRAVEL  SMALL BLUE-STONE	SAMPLE INTERVAL TOP 5,5 7 BOTTOM 7, 5 7  ETAINING PRESENT?  COLOR: PAINT PRESENT?  COLORS/ LAYERS (TOPCOAT TO BASE):	POWER TOOLS U  CORE DRILL  BARREL DIA: LUBE WATER: POTABLE OTHER CORED CLEAN THI NO RE-BAR PRESENT? NO CORE LENGTH: DECON FLUIDS / LIQUINOX DEIONIZED W POTABLE WA	THAND TOOLS USED  HEXANE  ATER  HAMN  DRILL  JACK  ELEC  SPADI  POINT  CHISE	HAMMER (TYPE / BIT):  FRIC COMPRESSED AIR  E-BIT (WIDTH):in.  T-BIT STAR-BIT
PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION METHOD 8082 4°C	VOLUME / JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED  COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION  C-141 (0,5-1,0")
NOTES		SEE SA	npre Pran	FIGURE,
Sampler Signature: The Fullet Checked By: Muh	Print Name RENE AUBL Date: P. A. 13	=		

	CONCRETE CORE/CHIP SAM	APLE FIELD DATA	A RECORD	
amer <sup>®</sup>	PROJECT NAME & LOC.		SAMPLE LOCATION	DATE
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	ALLNEX - WALLINGFOR PROJECT NUMBER	RD, CT.	ELEC SUBSTATION "F"	7/31/13
	3616086024.10.01		START TIME	END TIME
SUNNY, HOT, BREEZY GENERAL INFORMATION	SAMPLE ID CC-15(0-0,5")	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF 9
CONCRETE IS DRY CONCRETE IS OUTD	OORS OR EXPOSED TO ELEMENTS OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR HAVE ANY STANDING OI	<b></b>	IS A VERTICLE SURFACE
TYPE OF SAMPLES / QC COLLECTED  GRAB  CORE  DUP	SAMPLE INTERVAL	POWER TOOLS U		
COMPOSITE CHIP MS DUST MSD	воттом 0,5"	BARREL DIA:LUBE WATER:	in, DRILL E	BIT SIZE(S): 1,0" in,
AGGREGATE IN CONCRETE SURFACE S	STAINING PRESENT?	POTABLE OTHER CORED CLEAN THI		AMMER (TYPE / BIT):
PEA-GRAVEL  SMALL BLUE-STONE	COLOR:	NO  RE-BAR PRESENT?	YES	RIC COMPRESSED AIR BIT (WIDTH): in.
LARGE TRAP-ROCK NO	PAINT PRESENT?	NO CORE LENGTH:	YES POINT-	BIT STAR-BIT
OTHER YES  SURFACE PAINT NO	COLORS / LAYERS (TOPCOAT TO BASE):		HAND TOOLS USED	
INCLUDED IN SAMPLE?  YES  N/A	NA	DEIONIZED W	<b>├</b>	S.S. BOWL S.S. HAND SPOON / SPATULA
ANALYTICAL PARAMETERS				
PARAMETER NAME	METHOD PRESERVATION NUMBER METHOD	VOLUME/JARS REQUIRED	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION
TOTAL PCB's	8082 4°C	1 x 4oz AG	y N	C-15 (0-0,5")
NOTES		SKETCH	^	
		SEESA	IMPLE PLAN	FIGURE,
				•
•				
				!
Sampler Signature: Herse-Aube	Print Name; RENE AUBE			
Checked By:	Date: P. P. 13			

	CONCRETE CORE/CHIP SAM	IPLE FIELD DAT.	A RECORD	
amec $^{\odot}$	PROJECT NAME & LOC.  ALLNEX - WALLINGFOR		SAMPLE LOCATION ELEC SUBSTATION "F"	DATE 7/3/1/3
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024,10,01		START TIME	END TIME
SUNNY, 16T, BREEZY	SAMPLE ID CC-15 (0,5-1,0"	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF
1 <del>9° 31</del> 1	DORS OR EXPOSED TO ELEMENTS  DR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR HAVE ANY STANDING O	2.3.	E IS A VERTICLE SURFACE
SAND PEA-GRAVEL  SMALL BLUE-STONE LARGE GRAVEL  LARGE TRAP-ROCK OTHER  SURFACE PAINT  NO  NO  NO  NO  NO  YES	SAMPLE INTERVAL  TOP 3.5"  BOTTOM 1.5"  CTAINING PRESENT?  COLOR:  COLOR:  COLORS / LAYERS (TOPCOAT TO BASE):	POWER TOOLS L  CORE DRILL  BARREL DIA: LUBE WATER  POTABLE OTHER  CORED CLEAN TH  NO  RE-BAR PRESENT!  NO  CORE LENGTH:  DECON FLUIDS.	in. DRILL  :  JACK RU CONCRETE? ELECT  YES  YES  YES  POINT	E-BIT (WIDTH):in.
INCLUDED IN SAMPLE?  YES N/A  ANALYTICAL PARAMETERS	/\//	DEIONIZED W	<u> </u>	S.S. BOWL S.S. HAND SPOON / SPATULA
PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD  8082 4°C	VOLUME / JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION  CC-15 (0,5-1,0")
NOTES		SEE SA	MPLE PLAN	FIGURE.
Sampler Signature Rospe Aubet				
Checked By:	Date: 8.8.13			

ai i i e c	PROJECT NAME & LOC.  ALLNEX - WALLINGFOR	PD CT	SAMPLE LOCATION	DATE 7/31/13
Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER	D, CI.	START TIME	END TIME
ATHER INNY, HOT, BREEZY	3616086024.10.01 SAMPLE ID CC-16(0-0,5")	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE   OF
NERAL INFORMATION  CONCRETE IS DRY CONCRETE IS OUTDO	OORS OR EXPOSED TO ELEMENTS OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAI HAVE ANY STANDING (	President	ONCRETE IS A VERTICLE SURFACE
SAND PEA-GRAVEL SMALL BLUE-STONE	SAMPLE INTERVAL  TOP BOTTOM STAINING PRESENT?  COLOR:  PAINT PRESENT?  COLORS / LAYERS (TOPCOAT TO BASE):	POWER TOOLS  CORE DRILL  BARREL DIA  LUBE WATE  POTABLE  OTHER  CORED CLEAN TH  NO  RE-BAR PRESENT  NO  CORE LENGTH:  DECON FLUIDS  LIQUINOX  DEIONIZED TO TABLE	HRU CONCRETE? YES  YES  in.  / HAND TOOLS USED  WATER  METHANOL	HAMMER DRILL DRILL BIT SIZE(S):  JACK HAMMER (TYPE / BIT): ELECTRIC COMPRESSED AIR  SPADE-BIT (WIDTH): POINT-BIT STAR-BIT CHISEL-BIT OTHER  ALUMINUM PAN S.S. BOWL S.S. HAND SPOON / SPATULA
PARAMETERS  PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD  8082 4°C	VOLUME / JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTE	SAMPLE BOTTLE LABEL IDENTIFICATION CC-16(3-3,5
TES		SKETCH SEE 5	EAMPLE P	UN FIGURE
TES			EAMPLE P	UN FIGURE
TES			EAMPLE P	UN FIGURE
TES			EAMPLE P	UN FIGURE

	CONCRETE CORE/CHIP SAM	APLE FIELD DATA	A RECORD	
amec 1000 Fin Street Strite 201 Roder Hill Competition 06067	PROJECT NAME & LOC.  ALLNEX - WALLINGFOR	ND, CT.	SAMPLE LOCATION ELEC SUBSTATION "F"	DATE 7/31/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024,10.01		1530	ISO5
SUNNY, HOT, BREEZY GENERAL INFORMATION	CC-16 (0,5-10")	SAMPLE TIME 15 45	AOC NAME/NUMBER AOC 906	PAGE OF
CONCRETE IS DRY CONCRETE IS OUTD	OORS OR EXPOSED TO ELEMENTS OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR OF HAVE ANY STANDING OF	C	IS A VERTICLE SURFACE
TYPE OF SAMPLES / OC COLLECTED  GRAB  CORE  COMPOSITE  CHIP  MS  DUST  MSD	SAMPLE INTERVAL  TOP 0,5"  BOTTOM 1,0"	POWER TOOLS U  CORE DRILL  BARREL DIA:  LUBE WATER:  POTABLE	HAMM!	er drill bit size(s): 0, 75" in.
SAND PEA-GRAVEL SMALL BLUE-STONE	COLOR:	OTHEROTHERNO RE-BAR PRESENT?	RU CONCRETE? ELECTI	-BIT (WIDTH):in.
LARGE GRAVEL  LARGE TRAP-ROCK  OTHER  OTHER  SURFACE  NO YES	PAINT PRESENT?  COLORS / LAYERS (TOPCOAT TO BASE):	CORE LENGTH:	in. POINT-CHISEL	
SURFACE PAINT  NO  NCLUDED IN SAMPLE?  YES  N / A	NA	DECON FLUIDS / LIQUINOX DEIONIZED W POTABLE WA		ALUMINUM PAN S.S. BOWL S.S. HAND SPOON / SPATULA
ANALYTICAL PARAMETERS  PARAMETER	METHOD PRESERVATION	VOLUME / JARS	SAMPLE QC	GAMINE DOGGEN TO A SECOND
NAME TOTAL PCB's	NUMBER METHOD  8082 4°C	REQUIRED  1 x 4oz AG	COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION  C-16(0,5-1,0")
NOTES		SKETCH	AMPLE PLAN	FIGURE.
Sampler Signature: Have Sube-	Print Name: RENE AUB !			
Checked By: Club	Date: 7.73			

	CONCRETE CORE/CHIP SAM	APLE FIELD DATA	A RECORD	
amec $^{\odot}$	PROJECT NAME & LOC. ALLNEX - WALLINGFOI	RD, CT.	SAMPLE LOCATION  ELEC SUBSTATION "F"	DATE 7/31/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024.10.01		START TIME	END TIME
WEATHER SUNNY, HOT, BREEZY GENERAL INFORMATION	SAMPLE ID CC-17(0-0,5")	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE OF
CONCRETE IS DRY CONCRETE IS OUTDO	DORS OR EXPOSED TO ELEMENTS OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR HAVE ANY STANDING O		IS A VERTICLE SURFACE
SAND PEA-GRAVEL SMALL BLUE-STONE	SAMPLE INTERVAL TOP BOTTOM STAINING PRESENT?  COLOR:  COLOR:  COLORS / LAYERS (TOPCOAT TO BASE):	POWER TOOLS U  CORE DRILL  BARREL DIA: LUBE WATER  POTABLE OTHER  CORED CLEAN TH  NO  RE-BAR PRESENT? NO  CORE LENGTH:  DECON FLUIDS /  LIQUINOX DEIONIZED W  POTABLE WA	in. DRILL I  TO SPADE.  THE SP	IAMMER (TYPE / BIT):  RIC COMPRESSED AIR  BIT (WIDTH): in.  BIT STAR-BIT  OTHER  ALUMINUM PAN  S.S. BOWL
ANALYTICAL PARAMETERS  PARAMETER  NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD  8082 4°C	VOLUME / JARS REQUIRED 1 x 4oz AG	SAMPLE QC COLLECTED	S.S. HAND SPOON / SPATULA  SAMPLE BOTTLE LABEL IDENTIFICATION  C17(0-0,5'')
NOTES		SKETCH SEE SA	AMPLE PLAN	FIGURE.
Sampler Signature: Range Aube	Print Name: RENE AUBE	-		
Checked By: Mul	Date: P. F. 13			

	CONCRETE CORE/CHIP SAM	APLE FIELD DATA	RECORD	
amec <sup>⊕</sup>	PROJECT NAME & LOC.  ALLNEX - WALLINGFOR		SAMPLE LOCATION ELEC SUBSTATION "F"	DATE 7/31/13
1090 Elm Street, Suite 201, Rocky Hill, Connecticut 06067	PROJECT NUMBER 3616086024,10,01		START TIME	END TIME
WEATHER SUNNY, HOT BREEZY GENERAL INFORMATION	SAMPLE ID (0.5-1.0")	SAMPLE TIME	AOC NAME/NUMBER AOC 906	PAGE J OF J
CONCRETE IS DRY CONCRETE IS OUTDO	OORS OR EXPOSED TO ELEMENTS  OR PROTECTED FROM ELEMENTS	DOES CONCRETE APPEAR O HAVE ANY STANDING OIL	AT 1	IS A VERTICLE SURFACE
SAND PEA-GRAVEL SMALL BLUE-STONE	SAMPLE INTERVAL TOP O. 5" BOTTOM J.O"  TAINING PRESENT?  COLOR:  AINT PRESENT?  COLORS/LAYERS (TOPCOAT TO BASE):	POWER TOOLS US  CORE DRILL  BARREL DIA: LUBE WATER: POTABLE OTHER CORED CLEAN THRU NO RE-BAR PRESENT? NO CORE LENGTH: DECON FLUIDS / F LIQUINOX DEIONIZED WAT	JACK H.  J CONCRETE?  JACK H.  ELECTE  YES  SPADE- POINT-I CHISEL  HAND TOOLS USED  HEXANE TER  METHANOL	AMMER (TYPE / BIT):  UC COMPRESSED AIR  BIT (WIDTH): in.  BIT STAR-BIT
ANALYTICAL PARAMETERS  PARAMETER NAME  TOTAL PCB's	METHOD PRESERVATION NUMBER METHOD  8082 4°C	VOLÜME/JARS REQUIRED ( 1 x 4oz AG	SAMPLE QC COLLECTED COLLECTED	SAMPLE BOTTLE LABEL IDENTIFICATION
NOTES		SEE SAI	MPLE PLAN	FIGURE,
Sampler Signature: Jape Aube	Print Name: RENE AUBE			
Checked By:	Date: P.F.13			

	SOIL BORING LOG										
	_						5	ı	Project Name: ALLNEX	Boring II	58-1115
		3/7			<b>;</b> (		Samuel Control		Project Location: WALLINGFORD, CT.	Page No.	
		Street, S					<u> </u>	067	Project No.: 3616086024Task No: 16.01	Client:	CAPPANNAR1
_		eation:						F	Refusal Depth: — Total Depth: 3.0		le ID/OD: 3,0"
	ther:	tor	υy,	<u>(%)</u>	$\frac{OL}{IA}$	<u> </u>	(EE	= y	Soil Drilled: 3.0 Method: HAND AUGEN P.I.D (eV): 10,6 Protection Level:		
-	l Drille			/ /	V.A	_			Date Started: 7/25/13 Date Completed; 7/25/13	Sampler	HAND AUGER
Rig	Type/l	Model:		-/	VA				Logged By: R. AUBE Checked By: Mile		Wt/Fall: -NA-
_		Elevatio		-/	V.A	_			Water Level: -NA - Time: ).29.13	Hammer	Type: - NA -
	T	e Inforn	natior	1		Mor	itoring				
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks
0,	3				0				0-0,3 TRAPROCK	7	ROCK
3					0				O.3-1.3 MIX OF TRAPROCK.  MED BRN MED-FIN SAND.  DAMP, NO STAIN, NO ODOR  1.3-3.0 GRADUAL CHANGE  TO FAINT ORNG-BRN MED-  FIN SAND W/SOME TRAPRO  BTOP OF INTERVAL, TO  ORNG-BRN SAND ONLY,  AT BOTTOM OF INTERVAL.  ALL DAMP, ALL NO STAIN  NO ODOR.  BOTTOM OF BORING		ROCK TAND
NO	OTES:	140	25	\\ \( \text{C}	211	E			IMPLE 5B111502. 20-	3.0	' BG5
		. , _		**·				•	•	DCB	

	SOIL BORING LOG					
	Project Name: ALLNEX	Boring ID: 5'B-1116				
amec	Project Location: WALLINGFORD, CT.	Page No. of				
1090 Elm Street, Suite 201, Rocky Hill, CT 06067	Project No.: 36/6086024Task No: 10.01	Client.C. CAPPANNARI				
Boring Location: SUBSTATION F Weather: Cloudy, COOL BREEZY	Refusal Depth: 2.75' Total Depth: 2.75' Soil Drilled: 2.75' Method: HAND AUGER	Bore Hole ID/OD: 3.0" Casing Size: -NA-				
Subcontractor: -NA-	P.I.D (eV): Protection Level:	Sampler: HAND AUGER				
Lead Driller: -NA -	Date Started: 7/25/13 Date Completed: 7/25/13	Sampler ID/OD: 3.0"				
Rig Type/Model: -NA -  Reference Elevation: -NA -	Water Level: -NA - Time: 7-29-13	Hammer Wt/Fall: -NA - Hammer Type: -NA -				
Sample Information Monitoring						
Sample Number Penetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID	Sample Description and Classification	Charles Control of the Control of th				
0.3       0	0-0.3 TRAPROCK	Rock				
	O.3-1.2 MIX OF TRAPROCK + MED BRN MED-FIN SAND.	SAND				
42	1.2-2.75 FAINT ORNG-BR					
	MED-FIN SAND, DAMP, NO STAIN, NO ODOR.	SAND				
	REFUSAL @ 2.75' BGS, (TOP OF DE-ENERGIZED					
	FORMER BLDG 9).	7				
2,75	BOTTOM OF BORING					
NOTES: 1240 COLLECT SAMPLE SB111602, 2.0-2.75'BGS PCB'S						

Project Name: AUNEX   Project Leculion BULLY NAME   Project Lecu		SOIL BORING LOG										
1900 Etm Street, Suita 201, Rocky Hill, CT 06607  Topical No. 3 (16086 (229 as No. 16.0)  Topical No. 3 (16086 (229 as No. 16.										Project Names	Boring ID:	
1900 Em Street, Sule 201, Rocky HILL, CT 19007 Project No. 361 (6086028 No. 16.0) Check (2010 N. 1867 P. Reference Device) 1,300 Does Hote (1000 7.0) Washing (2010 N. 1867 P. Reference Device) 1,300 Project (2010 N. 1867 P. 18		amec									98-1117	
Bother College Jan James 1985 1977 100 100 100 100 100 100 100 100 100 1	1090	1090 Elm Street, Suite 201, Rocky Hill, CT 06067									rage No. of	
Weather Cleapy, Warm Drizete Soil Drilled: 1.30' Mathod: Manip Aug. R. Caring Size: -NA- Potestion Level: Sample: MANIP Aug. Sa	_			_								
Date Stated: \$191.3 Date Completes \$191.3 Sampler (DOD): \$10.7 Reference Elevation									LE	Soil Drilled: 1.30' Method: HAND AUGER		
Right Type Model: — MA—  Sample Information — MA  Sample Description and Classification — Ma  Remarks  Sample Description and Classification — Ma  Remarks  O-0.1' TRAPROCK  O.1-1.3' MIX OF TRAPROCK  + MED BRN MED-FIN SAND,  DAMP, NO STAIN, NO ODOR,  BOTTOM OF BORING  REFUSAL & 1.30' BGS  DUE TO UNDERGROUND  ELEC CONDUITS RUNNING  FROM OLD SUB-F VAULT  TO NEW SUB-F PAD.  NOTES: OPEN COLLECT SAMPLE SBIII701. I.0-1.3' BGS				<u>ر - ر</u>	VA	<u>-</u>					Sampler: HAND AUSIER	
Reference Elevation: - WA Monitoring.  Sample Information  Monitoring.  Sample Information  Monitoring.  Sample Information  Sample Information  Sample Description and Classification  Sample Description and Classification  Remarks  Remar				-/	V	1.						
Sample Information  Mornitoring  Graphy) under October				on: "	<u> </u>	A						
O-O.1' TRAPROCK O.1-1.3' MIX OF TRAPROCK +MED BRN MED-FIN SAND, DAMP, NO STAIN, NO OPOR, BOTTOM OF BORING  REFUSAL & 1.30' BGS  DUE TO UNDERGROUND ELEC CONDUITS RUNNING FROM OLD SUB-F VAULT TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS							Mor	nitoring			Transmer Type: - 7071	
DI-1.3' MIX OF TRAPROCK  + MED BRN MED-FIN SAND,  DAMP, NO STAIN, NO ODOR.  BOTTOM OF BORING  REFUSAL & 1.30' BGS  DUE TO UNDERGROUND  ELEC CONDUITS RUNNING  FROM OLD SUB-F VAULT  TO NEW SUB-F PAD.  NOTES! 0900 COLLECT SAMPLE SBITTOI. 1.0-1.3' BGS		Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	CSC Group Remarks	
DI-1.3' MIX OF TRAPROCK  + MED BRN MED-FIN SAND,  DAMP, NO STAIN, NO ODOR.  BOTTOM OF BORING  REFUSAL & 1.30' BGS  DUE TO UNDERGROUND  ELEC CONDUITS RUNNING  FROM OLD SUB-F VAULT  TO NEW SUB-F PAD.  NOTES! 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS										O-O.1' TRAPROCK	Rock	
HED BRN MED-FIN SAND, SAND, DAMP, NO STAIN, NO OPOR, BOTTOM OF BORING  REFUSAL & 1.30' BGS  DUE TO UNDERGROUND  ELEC CONDUITS RUNNING  FROM OLD SUB-F VAULT  TO NEW SUB-F PAD.										·	1 ' 1 '	
DAMP, NO STAIN, NO ODOR, BOTTOM OF BORING  REFUSAL & 1.30' BGS  DUE TO UNDERGROUND  ELEC CONDUITS RUNNING  FROM OLD SUB-F VAULT  TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBITTOI. 1.0-1,3' BGS	4	\$								OIT IS JUIX OF TRAPROCK		
DAMP, NO STAIN, NO ODOR, BOTTOM OF BORING  REFUSAL & 1.30' BGS  DUE TO UNDERGROUND  ELEC CONDUITS RUNNING  FROM OLD SUB-F VAULT  TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBITTOI. 1.0-1,3' BGS	$\vdash$									TMED BRN MED-FIN SAND.	ZAND	
REFUSAL & 1.30' BGS  DUE TO UNDERGROUND  ELEC CONDUITS RUNNING  FROM OLD SUB-F VAULT  TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBITTOI. 1.0-1.3' BGS										DAMP, NO STAIN, NO ODOR		
REFUSAL & 1.30' BGS  DUE TO UNDERGROUND  ELEC CONDUITS RUNNING  FROM OLD SUB-F VAULT  TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBITTOI. 1.0-1.3' BGS	,	7								BOTTOM OF BODING		
DUE TO UNDERGROUND ELEC CONDUITS RUNNING FROM OLD SUB-F VAULT TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBILLTOL. 1.0-1.3' BGS	1/	2	_		_	_		-				
DUE TO UNDERGROUND ELEC CONDUITS RUNNING FROM OLD SUB-F VAULT TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBILLTOL. 1.0-1.3' BGS										REFUSAL Q 1.30' BGS		
ELEC CONDUITS RUNNING FROM OLD SUB-F VAULT TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBITTOI. 1.0-1.3' BGS.											·	
FROM OLD SUB-F VAULT TO NEW SUB-F PAD.  NOTES: 0900 COLLECT SAMPLE SBITTOI. 1.0-1.3' BGS	-				į							
NOTES: 0900 COLLECT SAMPLE SBILLTOL. 1.0-1.3' BGS			1							ELEC CONDUITS RUNNING		
NOTES: 0900 COLLECT SAMPLE SBILLTOL. 1.0-1.3' BGS		1								FROM OLD SUB-F VAULT		
NOTES: 0900 COLLECT SAMPLE SB111701. 1.0-1.3' BG5										1 · · · · · · · · · · · · · · · · · · ·		
NOTES: 0900 COLLECT SAMPLE SBILLTOL. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD)						ļ				10 NEW JUB-F YAY.		
NOTES: 0900 COLECT SAMPLE SBILLTOI. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD) PCB'	<u>_</u>	1	1									
NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD)										·		
NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD)  DER'	<b> </b>	4										
NOTES: 0900 COLLECT SAMPLE SB111701. 1.0-1.3' BGS' (SAMPLE, DUP, MS, MSD)												
NOTES: 0900 COLLECT SAMPLE SB111701. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD) PCR'-	-	1					1					
NOTES: 0900 COLLECT SAMPLE SB111701. 1.0-1.3' BGS' (SAMPLE, DUP, MS, MSD) POR'-							1					
NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD)		1										
NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS' (SAMPLE, DUP, MS, MSD)												
NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD)		1										
NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD)		1										
NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD)												
NOTES: 0900 COLECT SAMPLE SBITTOT. 1.0-1.3' BGS (SAMPLE, DUP, MS, MSD)  DER'-	-											
NOTES: 0900 COLLECT SAMPLE SBITTOT. 1.0-1.3' BGS' (SAMPLE, DUP, MS, MSD)												
(SAMPLE, DUP, MS, MSD) DIR'	NO	NOTES: 0900 COLECT SAMPLE SB111701. 1.0-1.3' BGS										
1003					•	(54	7-M	PLE	, <i>J</i>	PUP, MS, MSD) PCB's		

SOIL BORING LOG								
Project Name: ALLNEX Boring ID: 5B-1118								
amec	Project Location: WALLING FORD, CT.	Page No. of						
1090 Elm Street, Suite 201, Rocky Hill, CT 06067	Project No.: 361608602 4 ask No: 16.01	Client: C. CAPPANNAR I						
Boring Location SUBSTATION F	Refusal Depth: -NA- Total Depth: 3.0'	Bore Hole ID/OD: 3.0"						
Subcontractor:	P.I.D (eV): — NA — Protection Level: Date Started: \$1313 Date Completed \$213	Sampler: HAND AUGER						
Lead Driller: -NA - Rig Type/Model: -NA -	Date Started: 8/3/13 Date Completed B/3/1/3 Logged By: R. AUBE Checked By	Sampler ID/OD: 3.0" Hammer Wt/Fall: -NA-						
Reference Elevation: ~\mathcal{N}A -	Water Level: -NA - Time: 8-14-13	Hammer Type: - \/ A -						
Sample Information Monitoring								
Sample Number Penetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID	Sample Description and Classification	OSCS Group Remarks						
	O-03' TRAPROCK.	ROCK						
2.3	D.3-1.5' MIX OF TRAPROCK AND MED BRN MED-FIN SAND, DAMP, NO STAIN, NO ODOR. 1.5-2.3' CHANGE TO ORNG- BRN MED-FIN SAND, NO STAIN, NO ODOR, DAMP. 2.3-3.0' CHANGE TO HONEY -BRN MED-FIN SAND, DAMP NO STAIN, NO ODOR. BOTTOM OF BORINGS	SAND						
NOTES: 1000 COLLECT SAMPLE SB111802, 2.0-3.0' BGS PCB's								

SOIL BORING LOG									
Project Name: ALLNEX  Boring ID: 5B-1119									
amec	Project Location: WALLING FORD, CT.	Page No. of							
1090 Elm Street, Suite 201, Rocky Hill, CT 06067	Project No.: 36/6086024 Task No: 10,01	Client: C. CAPPANNARI							
Boring Location: SUBSTATION F	Refusal Depth: — VA — Total Depth: 3.0	Bore Hole ID/OD: 3,0"							
Weather: Cloudy, Cool, BREEZY Subcontractor: -NA-	Soil Drilled: 3.0 Method: HAND AUGIER P.I.D (eV): Protection Level: D	Casing Size: — // 4 —							
Lead Driller: -NA-	Date Started: 7/25/13 Date Completed: 7/25/13	Sampler: HAND AUGER Sampler ID/OD: 30"							
Rig Type/Model: -NA-	Logged By: R. AUBE Checked By Chuk	Hammer Wt/Fall: -NA-							
Reference Elevation: -NA -	Water Level: -NA- Time: >-28.13	Hammer Type: -NA-							
Sample Information Monitoring		_							
Sample Number Penetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID	Sample Description and Classification	USCS Group Symbol Symbol							
0.8	0-0.3 TRAPROCK	ROCK							
	DIS-0,9 MIX OF TRAPROCK + MED BRN MED FIN SAND,	ROCK							
	DAMP, NO STAIN, NO ODOR.								
	0.9-1.5' MIX OF TRAPROCK + FAINT ORNG-BRN MED-FIN	AND							
	SAND, DAMP, NO STAIN, NE								
1,5	1.5-3.0 ABRUPT CHANGE	SAND							
	TO ORNG-BRN MED-FIN								
	SAND, DAMP, NO STAIN, NO ODOR.								
3,0	BOTTEM OF BORING								
NOTES: 1100 COLLECT SAMPLE SBITT902. 2.0-3.0' BGS PCB'S									

	SOIL BORING LOG										
	Project Name: ALL NEX Boring ID:										
	Project Location WALLINGTORD CT. Page No. 1 of 1										
		Street, S							Project No.: 36/6086024 Task No: 10,01		CAPPANNARI
		cation:							Refusal Depth: -NA - Total Depth: 3,0	Bore Ho	ole ID/OD: 3,0"
		CLOU	<u>DY</u> ,	<u>, (</u>	<u> 301</u>	<u>, ב</u>	શિ હિંદ	ZY	Soil Drilled: 3.0' Method: HAND AUGET		
-	ontra			$\frac{\mathcal{N}}{\mathcal{N}}$	7-				P.I.D (eV): Protection Level: Date Started: 7/25/13 Date Completed 7/25/13		THAND AUGER
		Model:	*****	<u> </u>	4 -				Logged By: R, AUBE Checked By: Mu	<del></del>	r ID/OD: 3.0" or Wt/Fall: -NA-
		Elevation	on:	-/\	A-				Water Level: -NA- Time: 7.29.13	Hamme	
$\vdash$	· •	le Inform	natior	1		Mor	itoring				
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol	Remarks
0,	3				0				O-0.3' TRAPROCK		ROCK
	-								0.3-1.8' MIX OF TRAPROCK		ROCK
									+ MED-BRN MED-FIN SAN	'P	SAND
									MONE ROCK NEAR TOP OF INTERVAL, LESS NEAR	!	
-	-								BOTTOM. DAMP, NO STAIN,		
									NO OPOR.		
1,5	*								1.8-3.0' GRADUAL CHANG		
ļ ——									TO VERY FAINT ORNG-BRA	- ال	//TNI)
	1								SAND, VERY FEW ROCK.		
									SAND IS MED-FIN W/NO STAIN, NO ODOR, DAMP.		
	1								,		
3	0								BOTTOM OF BORING		
		-	-		-		_	-			·
-	1										
-	-						į				
	-										
NC	TES	15	TC	) (	Col		CA	5	AMPLE 5B112002. 20	_	· ·
	PCB's										

SOIL BORING LOG								
	Project Name: ALLNEX	Boring ID:						
amec	Project Location: WALINGFORD, CT.	SB-1121 Page No. 1 of 1						
1090 Eim Street, Suite 201, Rocky Hill, CT 06067	Project No.: 3616086024 Task No: 10.01	Client: C, CAPPANN A-RI						
Boring Location: SUBSTATION F	Refusal Depth: $-NA$ - Total Depth: $3,0'$	Bore Hole ID/OD: 3,0"						
Weather: Cloudy, COOL, BREEZY								
Subcontractor: - \lambda A -	P.I.D (eV): 10.6 Protection Level: D	Sampler: HAND AUGIER						
Rig Type/Model: ~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Date Started: 7/25/13 Date Completed: 7/25/13  Logged By: R. AUBE Checked By VIII	Sampler ID/OD: 3.0" Hammer Wt/Fall: -NA-						
Reference Elevation: -\/A -	Water Level: $-NA$ - Time: > 27./3	Hammer Type: -NA-						
Sample Information Monitoring								
Sample Number Penetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID	Sample Description and Classification	Coordinates Remarks						
0,3	O-0.3' TRAPROCK	ROCK						
3,0	0,3-1,4' MIX OF TRAPROCK MED-BRN MED-FIN SAND. DAMP, NO STAIN, NO OPOR. 1.4-3.0' ABRUPT CHANGE TO ORANGE-BRN MED- FIN SAND. DAMP, NO STAIN NO OPOR. BOTTOM OF BORING	SAND SAND						
NOTES:								
NOTES: 1150 COLLECT SAMPLE 5B112102, 2,0-3.0' BG5 PCB'S								

Project Name: AUNEX Project Location (JALLINGFOR) CT. Page No. 1 of 1 Project Location (JALLINGF	SOIL BORING LOG											
1900 Ein Stoet, Saile 201, Rocky Hill, CT 0607  Project No. 32 (AS 360 24 Task No. 10. 3)  Cline: C. APPANINA  Some Location JUBSTATION F  Refeat Depti: A.A. Total Depti: 3, 0. 1  Subconnector NA Subconnect							_(	(V)		Project Name: ALLNEX	Boring ID: SR-112	2
1000 Ein Steet, Sulte 201, Rookly HIII, CT 106607 Project No. 32 (1000 Rep. 13, 00)   Clear C. (APPANANA Electronic Project No. 11 (1000 Rep. 13, 00)   Rook Hote Info 10000 R	amec										Page No. 1 of	
Bother Louising FLBSTATION F  Rectained Equity (LOUIS) LARM  Subcontinuous - NA -  Louising Black - NA -  Rectained Flat (LOUIS) LARM  Subcontinuous - NA -  Rectained Flat (LOUIS) LARM  Subcontinuous - NA -  Rectained Flat (LOUIS) LARM  Subcontinuous - NA -  Rectained Flat (LOUIS) LARM  Rectained Flat (LO										Project No.: 3616086024Task No: 10.01		NAR
Subcommentor — NA — Lead Deller — NA — Big Typestodel: — NA — Big Typestodel: — NA — Logged by R. AUBE — Clocked 16 Mar. — Hannow World: — NA — Sample Information Monitoring.  Sample Information Monitoring.  Sumple Description and Classification  Sumple Description and Classification  NOTES: 1500 CLOULECT SAMPLE SIBILIZO2. 2.00-3.0' BGS.  NOTES: 1500 CLOULECT SAMPLE SIBILIZO2. 2.00-3.0' BGS.									=	Refusal Depth: -NA - Total Depth: 3,0'		3"
Due Startet: 7/2 4/13 Date Complege: 7/2 4/13 Sampler 10000. 3.5 %  Reference Elevation: -NA- Reference Elevation: -NA- Sample Information  Monitoring  Mary Level: -NA- Time: 7.25.13  Hammer WPail: -NA- Time: 7.25.13  Hammer Type: -NA- Remarks  Ada 29 July 1 Ju						_	IAI	<u>m</u>				
Reference Beautiers — NA—  Water Level: — NA—												SHETT.
Reference Elevation — NA— Sample Information  (A)  (A)  (A)  (A)  (A)  (A)  (A)  (A					-	_					1 230	<u>'</u> 1 -
Sample Description and Classification  Sample Description							7-	***				<del>4</del> —
DODES: 1500 CIBLECT SAMPLE SB112202. 2.0-3.0' BGS		Samp	le Inforr	natior	1		Mo	nitoring				
O.2-1,1' MIX OF TRAPROCK + MED BRN MED-FIN SAND, DAMP, NO STAIN, NO ODOR 1.1-3.0' ORNG-BRN MED-FIN SAND SAND, DAMP, NO STAIN, NO ODOR, BOTTOM OF BORINGS.  BOTTOM OF BORINGS.  NOTES: 1500 CRUECT SAMPLE SB112202. 2.0-3.0' BG5		Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	, .		USCS Group Remark	s
DAMP, NO STAIN, NO ODOR  1.1-3.0' ORNG-BRN MED-FIN SAND  SAND. DAMP, NO STAIN, NO ODOR. BOTTOM OF BORING.  NOTES: 1500 COLECT SAMPLE SB112202. 2.0-3.0' BG5						0				1	POCK	
NOTES: 1500 COLLECT SAMPLE S'B112202. 2.0-3.0' BGS	<b>a</b> 2			i i		0				0.2-1.1' MIX OF TRAPROCK + MED BRN MED-FIN SAND.	SAND	
SAND. DAMP, NO STAIN, NO ODOR. BOTTOM OF BORINGS.  NOTES: 1500 CROLECT SAMPLE SB112202. 2.0-3.0' BGS	-1			 								
NOTES: 1500 COLECT SAMPLE 5B112202. 2.0-3.0' BG5	1 2 1	1		ŀ		C	ĺ					
NOTES: 1500 COLECT SAMPLE 5B112202. 2.0-3.0' BG5	<b></b>							İ		DAND. VAMP, NO STAIN, NO		
NOTES: 1500 COLECT SAMPLE 5B112202. 2.0-3.0' BG5								ļ ·		ODOR, BOTTOM OF BORING		
1500 COOLECT SAMPLE SB112202. 2,0-3,0'BGS	3.	0	-	\ _	+	_	-	_	-			
1500 COOLECT SAMPLE SB112202. 2,0-3,0'BGS												
1500 COOLECT SAMPLE SB112202. 2,0-3,0'BGS		-										
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS								,				
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS		1	ļ									
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS												
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS		1										
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS												
1500 COOLECT SAMPLE 5B112202. 2,0-3.0'BG5		1				1						
1500 COOLECT SAMPLE 5B112202. 2,0-3.0'BG5												
1500 COOLECT SAMPLE 5B112202. 2,0-3.0'BG5		1				1	Ì					
1500 COOLECT SAMPLE 5B112202. 2,0-3.0'BG5							1					
1500 COOLECT SAMPLE 5B112202. 2,0-3.0'BG5		1										
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS					1							
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS												
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS												
1500 COOLECT SAMPLE SB112202. 2,0-3.0'BGS												
1500 COOLECT SAMPLE SB112202. 2,0-3,0'BGS			*									
1500 COOLECT SAMPLE SB112202. 2,0-3,0'BGS	1											
1500 COOLECT SAMPLE SB112202. 2,0-3,0'BGS												
1500 COOLECT SAMPLE SB112202. 2,0-3,0'BGS			-									
1500 COOLECT SAMPLE SB112202. 2,0-3,0'BGS												
$\mathcal{D}_{\Lambda} \mathcal{R}^{\prime}$	NO	<u> TES</u>	150	0	Ĉŧ	rol.	EC	7:	54			

PCB's

SOIL BORING LOG										
									Project Name: ALLNEX	Boring ID: 5B-1123
	amec								Project Location: WALLINGTFORD, CT.	
1090	Elm	Street, S	Suite 2	201, 1	Rocky	/ Hill	, CT 0	5067	Project No.: 3616086024Task No. 10.01	Page No. of Client: C. CAPPANNAR!
		cation:	_						Refusal Depth: -NA - Total Depth: 3.0	Bore Hole ID/OD: 3,0"
		UN)	Clo	<i><b>2011</b></i>	25,				Soil Drilled: 3.0 Method: HAND ALKSEN	
<del></del>	ontra		<u>~ ^</u>	√ <u>A</u>	~			-	P.I.D (eV): Protection Level: D	Sampler: HAND AUGIER
	l Drill	er: Model:	<u>~ /</u>	<u> </u>	7			· · ·	Date Started: 7/24/13 Date Completed: 7/24/13 Logged By: 12. Aut 3 E Checked By: May 1	Sampler ID/OD: 3,0"
_		Elevation	on:	<u>/v</u> - /	VA			···	Water Level: -NA- Time: 2.29.13	Hammer Wt/Fall: -NA- Hammer Type: -NA-
	Samp	le Infort	natior	_نىس	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>		nitoring		27773	TARIAN TYPE:
O Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	SPT Blows/6"	N Value	PID Field Scan	PID Headspace	Lab Tests Performed	Lab Sample ID	Sample Description and Classification	USCS Group Symbol Remarks
:					0				O-0.2' TRAPROCK	ROCK
3.	0								O.2-3.0' MIX OF TRAPROCK MED BRN MED-FIN SAND. M. TRAPROCK & TOP OF BORING, STRAPROCK & BOTTOM OF BORING DAMP, NO STAIN, NO ODOR. BOTTOM OF BORING.	ST 66.
NC	NOTES: 1545 COLLECT SAMPLE SB 112302, 2,0-3,0' BGS									
1	PCB's									

SOIL BORING LOG									
Project Name: Boring ID: Boring ID:									
Project Location: WALLING FORD, CT. Page No.   of									
1090 Elm Street, Suite 201, Rocky Hill, CT 06067	Project No.: 3616086024Task No: 10,01	Client C. CAPPANNARI							
Boring Location: SUBSTATION F	Refusal Depth: -NA- Total Depth: 3.0	Bore Hole ID/OD: 3,0"							
	Soil Drilled: 3,0 Method: HAND AUGET	Casing Size: -NA-							
	P.I.D (eV): Protection Level:	Sampler: JAND ACKIER							
Lead Driller: — NA — Rig Type/Model: — NA —	Date Started: 8/3/13 Date Completed 8/3/13  Logged By: R AUSE Checked By:	Sampler ID/OD: 3.0"							
Reference Elevation: — NA —	Water Level: NA - Time: P-14-13	Hammer Wt/Fall: - NA - Hammer Type: - NA -							
Sample Information Monitoring	Third. Third.	Transmer Type.							
Sample Number Penetration/ Recovery (feet) SPT Blows/6" N Value PID Field Scan PID Headspace Lab Tests Performed Lab Sample ID	Sample Description and Classification	USCS Group Symbol Remarks							
	0-0.1' TRAPROCK	Mock							
<del>  </del>	DAMA, NO STAIN, NO OPOR.								
	1.0-3.0' MED BRN MED-FIN SAND, SOME TRAPROCK, GRADUALLY CHANGING TO FAINT ORNG-BRN MED-FIN								
	SAND, FEW TRAPROCK. ALL DAMP. ALL NO STAIN-NO	_							
30   -   -   -   -	DOOR. BOTTOM OF BORING								
	THIS BORING ADDED TO PROGRAM IN THE FIELD DU TO OBSTRUCTION AT SB-1117 SHALLOWER THAN TARGET DEPTH.	7							
NOTES: 1100 COLECT SAMPLE 5B112402, 2.0.3.0' BG5 PCB's.									

## APPENDIX C LABORATORY ANALYTICAL REPORTS AND DATA REVIEW (CD)

# APPENDIX D GROUNDWATER MONITORING PLAN AOC 906 (FORMER SUBSTATION F)

#### **Groundwater Monitoring Plan – AOC 906 (Former Substation F)**

Allnex USA Inc. Wallingford, Connecticut

On behalf of Allnex USA Inc. (Allnex), AMEC Environment & Infrastructure, Inc. (AMEC) has prepared this plan for post-remediation groundwater monitoring activities associated with the planned remedial action at Area of Concern (AOC) 906, also referred to as the Former Substation F, at the Allnex facility (the Site) in Wallingford, Connecticut. AOC 906 and the Site are depicted on Figure 1. The following discussion summarizes the proposed monitoring program at AOC 906.

**New Monitoring Wells**. Two new monitoring wells (MW-28 and MW-29) planned for installation and sampling and will be located downgradient and in close proximity to AOC 906. The location of the two new wells is based on water table elevation contours developed from wells located across the site (See Figure 1) for ongoing site characterization. Each well will be installed with the screen in the shallow overburden aquifer to a depth of approximately 30 feet. The water table depth is approximately 20 to 22 feet below grade in the area of new wells.

Soil borings will be advanced using hollow stem auger drilling techniques. Upon completion of each boring, monitoring wells will be constructed using 2-inch inside diameter schedule 40 PVC well screens and threaded flush-coupled riser pipe to a depth at least five (5) feet below the water table (~ 25 to 30 feet below grade). Well screens will have 0.010-inch wide machine slots (unless geologic conditions dictate otherwise) with # 0 sand pack to at least 2 feet above the screen, a minimum two foot bentonite seal above the sand pack, and backfilled with either sand or native material to the ground surface. The wells will be completed with a locking cap and a six-inch flush mount cover, with a two foot concrete apron. Upon completion, each newly installed monitoring well will be developed (no sooner than 24 hours after installation for wells installed with top of screens below the water table) using pump and surge techniques.

**Monitoring Schedule.** Post-remediation groundwater monitoring will be conducted to monitor the groundwater quality downgradient of AOC 906 following the removal of PCB impacted soils at the former substation. Monitoring will be initiated after completion of all remediation activities at this AOC. Quarterly sampling will be performed to reflect seasonal variability following Connecticut Remediation Standard Regulations (RSRs) Section 22a-133k-3 (Ground-water Remediation Standards / Subsection(g) - Applying the Criteria for Ground Water). A summary of the sampling an analysis program for AOC 906, including analytical parameters and associated United States Environmental Protection Agency (USEPA) methods, is provided in Table 1.

**Sampling Procedures**. Allnex plans to conduct groundwater sampling following USEPA Region I guidance for low-stress sampling (USEPA, 2010a). Samples will be unfiltered and be collected by use of bladder or peristaltic pump.

**Notification and Reporting.** Allnex will provide a brief letter report summarizing analytical results within 60 days after the final sampling event. In the event that concentrations of PCBs in groundwater are reported at levels greater than 0.5 parts per billion (ppb), notification will be

made to Connecticut Department of Energy and Environmental Protection (CTDEEP) and USEPA following the event to determine if additional sampling may be necessary.

#### **Attachments**

Figure 1 Groundwater Contours with Proposed Well Locations

Table 1 Groundwater Monitoring Program

#### **REFERENCES**

USEPA, 2010a. "Region I Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells," Revision 3, January 19, 2010.

### TABLE 1 GROUNDWATER MONITORING PROGRAM

AOC 906 (Former Substation F) Allnex USA Inc. Wallingford, CT

Location ID
Monitoring Schedule
Sample Analyte
Sample Analytical Method
Extraction Method

MW-28	MW-29
Quarterly	Quarterly
PCBs	PCBs
SW846 - 8082	SW846 - 8082
SW846 - 3500C	Method 3500C

#### Notes:

AOC - Area of Concern
PCBs = Polychlorinated Biphenyls

Analytical detection limit for PCBs will be 0.5  $\mu g/L$  or lower.

## APPENDIX E CERTIFICATION

#### **APPENDIX E - CERTIFICATION**

Certification of Risk-Based Cleanup & Disposal of PCB Remediation Waste Allnex USA Inc. Facility, Wallingford, Connecticut

This Certification of Risk-Based Cleanup & Disposal of PCB Remediation Waste describes response actions that will be conducted at Allnex USA Inc. (Allnex), South Cherry Street, Wallingford, Connecticut.

As the property owner and party responsible for conducting the proposed cleanup described in the Area of Concern 906/Substation F PCB Investigation Report and Interim Remedial Action Plan, Allnex certifies that all sampling plans, sample collection procedures, preparation and extraction procedures, instrument and chemical analysis procedures used to assess or characterize the PCB contamination at the Site are on file at the following location(s) for USEPA inspection:

- Amec Foster Wheeler, 511 Congress Street, Suite 200, Portland, Maine, 04101
- Test America Laboratories, Inc., North Canton, Ohio (specific to preparation and extraction procedures and instrument analysis procedures)

To access these files, please contact Virginia Ryan (Allnex) at (203) 284-4212 to arrange an appointment and identify the specific records to be inspected. Allnex will compile the information requested and make the information available for review in our office or transmit copies directly to the USEPA representative requesting the information.

Frank DiCristina Site Manager Allnex USA Inc.

Wallingford, Connecticut

Date: 8/21/15